THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 3617 CENTRAL (3 lines).

Established in **ENGLAND, 1859.]**

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in **[AUSTRALASIA, 1885.**

No. 1,913. Vol. LXXXVIII. SEPTEMBER 23, 1916.

Subscription Rate, 12s. 6d. per annum. Single Copies, 6d. each. Winter and Summer Issues 1s. each. Post Free.

Extract of Malt
with
Cod Liver Oil
packed in amber-tinted glass jars —labelled.

SIZES.
½ lb., 1 lb., 2 lb., 4 lb.

Orders can be received for delivery.

Allen & Hanburys,
Limited,
London.

Extract of Malt
with
Cod Liver Oil
packed in amber-tinted glass jars —labelled.

SIZES:
½ lb., 1 lb., 2 lb., 4 lb.

Orders can be received for delivery.

Allen & Hanburys,
Limited,
London.

Index to Advertisers, page 5

UMNEY'S
Choice Synthetics

"ROSETTOL"

A true Rose Odour, 15/- per oz.

"ROSETTOL," first in the field, still holds first place amongst the synthetic rose products.

A PHARMACIST'S OPINION:

"Rosettol is better than any other artificial otto that I have tried."

GEORGE LUNAN, F.C.S., Pharmaceutical Chemist, Edinburgh.

PRESS OPINIONS:

"Consumers have long recognised the superlative merit of Rosettol, and buyers will find that for delicacy, permanence and faithfulness to the natural product it is hard to beat."

The British and Colonial Pharmacist.

"When the firm's Rosettol was first introduced, we were much impressed by its excellent qualities, and thought it was, in fact, an improvement upon the natural otto; we think so still."

The Pharmaceutical Journal.

As Specialists in the department of Synthetic Perfumes, we also give the benefit of our experience in the following:—

Nerolettol	6/6 oz.	Really replaces Neroli Oil.
Violonol	10/6 oz.	A natural and synthetic violet product (blended).
Jasminettol	10/6 oz.	The true subtle odour of the flower.
Benzoinettol	5/- oz.	A base for Eastern type perfumes.
Muscol	3/6 oz.	A highly concentrated Musk odour.

UMNEY'S PERFUMERY PRODUCTS were awarded
GRAND PRIX, Turin International Exhibition, 1911.
GOLD MEDAL, Brussels International Exhibition, 1910.

WRIGHT, LAYMAN & UMNEY, Ltd., Southwark, London, S.E.

BY SPECIAL APPOINTMENT
TO HIS MAJESTY THE KING

CORVUSINE D.G.

The Farmer's Greatest Friend

SAVES HIM POUNDS FOR EVERY SHILLING SPENT.

Known and used yearly by **thousands** of Farmers.

ARE YOU AN AGENT?

If not, you are losing a most lucrative business, and it will pay you to-day to write for terms and to fix up at once for the Autumn trade.

We advertise extensively.
We give liberal terms.

Remember!

CORVUSINE D.G.

has a very ready sale. You only have to hand it over the counter.

Particulars and terms from the Manufacturers:

HAWKER & BOTWOOD, LTD.

59 Mark Lane - London, E.C.

What Every Woman Wants!

TETLOW'S

'SWAN DOWN' FACE POWDER

"SWAN DOWN" enjoys the largest sale of any Face Powder in the World, and after 35 years on this market the demand grows every month.

EVERY WOMAN likes "SWAN DOWN" because it will not harm the most delicate complexion, is absolutely pure, and is effective and economical in use. She knows she might buy a much higher-priced article, but she will not get a better than "SWAN DOWN."

THE FAMILIAR "SWAN DOWN' BOX.

AN ADVANCE IN PRICE

has been necessitated owing to increased cost of materials and production and the paramount importance of maintaining the

STANDARD OF QUALITY.

74/- per Gross.

Bonus of 2 dozen with each gross.

Minimum Retail Price, 7½d. per box.

P.A.T.A.

Profit, 29/- per gross.

In Five Tints: White, Cream, Pink, Flesh & Brunette.

"SWAN DOWN" will be liberally advertised in the Press during the next twelve months, and its uses and quality will be introduced to several millions of ladies every month.

SECURE YOUR SHARE OF THE DEMAND

by ordering adequate stocks. Remember that every customer you make for "SWAN DOWN" is a satisfied and permanent one.

Let us send you Materials for Window Show Display—Showcards, Handbills, and other Advertising Matter.

HENRY C. QUELCH & Co

Ludgate Square E.C

Sept. 16, 1916

THERMOGENE
CURATIVE WADDING

"Look for the familiar Orange-Coloured Boxes in the Chemists' Windows."

THE ABOVE WORDS, IN BOLD TYPE, WILL APPEAR IN ALL THE LEADING LONDON DAILY PAPERS FROM THE FIRST WEEK IN OCTOBER ONWARDS.

SEE THAT YOU ARE NOT PASSED BY.

For Bonus Display Terms write to—

THERMOGENE CO., Ltd., Haywards Heath

FASSETT & JOHNSON, Ltd., 86 CLERKENWELL ROAD, LONDON, E.C.

"VASELINE"

AND

RELIABILITY

"VASELINE" when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and, where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds, which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

Chesebrough Mfg. Co. (Cons'd.)

42 Holborn Viaduct, London, E.C.

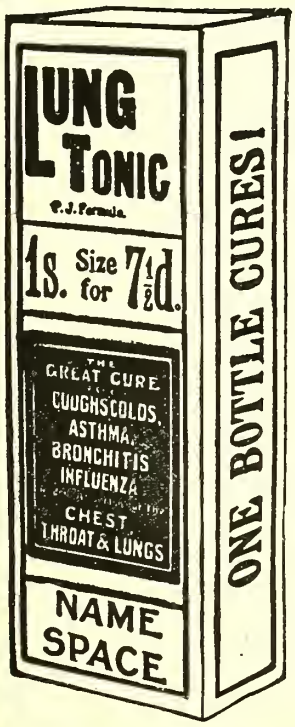
Complete Price List of all the "Vaseline" Preparations will be sent post free on application.

INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (1 to 32) in this index refer to Advertisements in front of the literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xxviii).

For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1916.

ALLCOCK MANUFACTURING CO., Plasters, &c. xxiii
ALLEN & HANBURYS, Ld., Packed Goods.....Cover, 8
ALLIANCE DRUG & CHEMICAL CO.,Drugs,Chemicals xv
AMERICAN BUREAU OF FOREIGN TRADE, Chemicals, Drugs, &c. viii
BAISS BROS. & CO., Ld., Drugs, Chemicals..... 27
BAKER, PARSON C., Chemists' Valuer .....Col. Supp.
BANDOENG QUININE FACTORIES, Quinine Salts ix
BARNETT & FOSTER, Aerated Water Machinery, Soluble Essences..... 30
BECKER, SHILLAN & CO., Chemicals..... xii
BEETHAM, M., & SON, Toilet Articles 29
BENGER'S FOOD, Ld., Foods..... 32
BERDOE & FISH, Chemists' Valuers,TransferAgents Col.Supp.
BEWLEY & DRAPER, Ld., Dichroic Ink xix
BLACKIE, ROBERT, Ointments, &c..... xvii
BLYTHE, W., & CO., Ld , Epsom Salts, Zinc Sulphate vii
BOAKE ROBERTS, A., & CO., Ld., Chemicals, Essences 23
BOROUGH POLYTECHNIC, Educational xxi
BOWDLEAR, W. H., Beeswax 15
BRAND & CO., Ld., Foods, Meat Extracts 12
BRASSEUR (LE) MNFO. CO., Rubber Goods xxvi
BRITISH DIAMALT CO., Foods xvi
BRITISH LANOLINE CO., Lanolines 24
BRITISH MILK PRODUCTS CO., Ld., Foods 6
BRITISH ORGANOTHERAPY CO., Ld., Organo-therapeutic Preparations v
BROOKS, PEEL & CO., Ld., Collapsible Tubes 28
BROWN, B., & BRO., Drugs, Chemicals, Vegetable Oils 15
BROWNING, W., & CO., Emulsions, Paraffin Liq. xviii
BURGE, WARREN & RIDGLEY, Ld., India-Rubber Goods, Air Cushions, Anti-Rheumatic Rings xxvii
BURNSIDE & CO., Eucalyptus Oil 15
BURROUGH, J., Ld., Absolute Alcohol.....Text 988
BURROUGHS WELLCOME & CO., 'Tabloid' Preps,.. 31
BUTLER, E. H., & SONS, Acetanilide, Aniline Dyes .. viii
CELLONITE CO. (DREYFUS & CO.), Acetic Anhydride, Cellulose Acetate..... viii
CHATELAIN, J. L., French Medicinal Proprietaries..... ix
CHESEBROUGH MNFO. CO., Vaseline and Preps..... 4
CHESTER, A. D., & CO., Ld., Chemicals v
CITY OF LONDON COLLEGE, Educational xxi
CHRISTY, T., & CO., Toilet Articles,Tartar Remover,&c. 32, xxvii
CLARK, CICERO S., Cachets xxvi
COLEMAN & CO., Ld., Tonic and Medicated Wines v
COOK, G., Stopfittings xxi
COOPER, SON, & CO., Ld., Cachets xxvi
COURTIN & WARNER, Chemicals, Essential Oils .. xii
CUXSON, GERRARD & CO., Ld., Surgical Dressings 24
DAISY, Ld., Headache Powders 20
DAVIES, SONS & CO., Malt Extracts, Packed Goods.. 5
DEE OIL CO., Ld., Petroleum Jellies..... 26
DORE, J., & CO., Stills 29
DUNCAN, FLOCKHART & CO., Chloroform, Ethers, Bacterial Vaccines, Galenicals xiii
EASTERN DENTAL MFG. CO., Dental Goods xxvi
ELLISON, H., Ld., Disinfectants xxvi
EUCRYL, Ld., Dentifrices 25
EWEN, J., & SONS, Lard 28
EXPRESS DEVELOPING CO., Photographics..... iv
FABRA CO., Ld., Chemicals..... iv
FAIRE BROS. & CO., Ld., Sealing Machine 29
FARRIS, CHARLES, Beeswax, Spermaceti, White Oils 10
FERRIS & CO., Ld., Opium Preps., Packed Goods..... vi
FINK, F., & CO., Gums xxvi
FLETCHER, FLETCHER & CO.,Ld., Liquors,Conc. Text 988
FLOREY, HARTLEY, Chemicals..... vi
FORD, SHAPLAND & CO., Chemists' Printing xix
FRAME FOOD CO., Ld., Foods 12
FUERST BROS., Chemicals (Pure and Technical) viii
GALEN MNFG. CO., Surgical Dressings, Sundries xxvi
GIGNOUX FRERES & CO., Boldo Leaves.....ii, xii
GOLDBERG, I. L., Santonine xi
GOUGH, KIDSTON & CO., Chemicals vii
GOWER, JOHN, Books (Secondhand, &c.) ....Col. Supp.
GREEFF, R. W., & CO., Chemicals (Fine and Technical) 9
GRIFFIN, J. J., & SON, Ld., Tablet Machines xxii
HARLEY, T., Rat Poison xxiv
HARRISON, ALF., & SONS, Chemists' Printing xviii
HARVEY & CO. (Dublin), Ld., Veterinary Medicines ..xxiv
HAWKER & BOTWOOD, Ld., Wheat Dressing..... 1
HEYMANN, H., Chemicals xxvii
HIGGIN, Ld., Vulcanite Goods xxvi
HOLOYD ADVERTISING SERVICE 19
HOMMEL'S, Dr., Haematogen ii
HORLICK'S MALTED MILK CO., Foods 7
HOVENDEN, R., & SONS, Ld., Druggists' Sundries, Toilet Articles, Brushes 16
HOYLE, J. & T., & CO. xxvi
HUBBUCK, THOS., & SON, Ld., Zinc Oxide iv
HUISKING, C. L., American Drugs, Chemicals, &c. .. vii
ISAACS, I., & CO., Medical Glassware 23
JOB BROS. (Newfoundland), Cod Liver Oil 19
JOHNSON, MATTHEY & CO., Ld., Rare Metals vii
JOSEPHS, PHILIP, & SONS, Ld., Shopfittings ..Col. Supp.
KAY BROS., Ld., Cements, Flycatchers, Proprietaries xxv
KELLAND, W. P., Safety Razors 16
KIDSTON W. M., & Co., Gums, Petroleum Jellies 28
KIRBY, H. & T., & CO., Ld., Pills and Tablets ... 32
LANG, JULES, & SON, Medical & Chemical Glassware 14,xxiii
LESCOL PERFUMERY CO., Perfumes, Soaps 22
LEVERMORE, A., & CO Ld , Chalk (Precipitated) ..xxvi
LIVERPOOL LINT CO., Surgical Dressings, Lint xxiii
LLOYD, A. S., Shaving Creams 17
LOFTHOUSE & SALTMER, Ld., Foods,Asthma Remedies 14
LORIMER, J., Foods, Antiseptics, Perfumes xviii
McCOTTER, S. G., & CO., American Chemicals &c. .. iv
McKESSON & ROBBINS, Capsuled Pills, Dentifrices .. xiii
MACFARLAN, J. F., & CO., Alkaloids, Chloroform, Emetine Salts, Surgical Dressings .....Cover
MADERO BROS. INC., Chemicals 18
MAGNUS, MABEE & REYNARD INC., Essential Oils 23
MALLINCKRODT CHEMICAL WORKS (Canada) Ld., Chemicals (Canadian and American) ii
MAW, S., SON & SONS, Druggists' Sundries, Packed Goods, Surgical Instruments, Vacuum Flasks 11
MEADE-KING, ROBINSON & CO., Petroleum Jellies 26
MELIN, C , & CO., Glass Ampoules, Tubes, &c. xvii
MELLIN'S FOOD, Ld., Protein Preparations..... xvii
MENDIP, Ld., Cement xiv
MILLAR, A., & CO., Ld., Orange Quinine Wine..... v
MONSANTO CHEMICAL WORKS, Glycerophosphates xiv
MUNN, W. A., Cod Liver Oil .....Text 988
NEWBALL & MASON, Botanic Drugs, Herb Extracts .. xvi
ORRIDGE & CO., Chemists' Valuers, &c. .....Col. Supp.
PASCALL, JAS., Ld., Medicated Confectionery 28
PELLIOT, HENRI, & CIE, Citric Acid vi
PENICK, S. B., & CO., American Crude Drugs vi
PERRY & HOPE, Ld., Malt Extract Preps..... x
PEXTON, CHATHAM, Photo Development..... xxi
PICERNO, V. A., Chemicals 18
PICKARD, IVE & RANKIN, Ld., Acetylsalicylic Acid .. i
PILLISCHER, J., Thermometers xvii
POTTER & CLARKE, Ld., Herbs, Asthma Remedies, Crude Drugs, Packed Goods xxviii
PRIDEAUX'S Ld., Casein 18
QUELCH, H. C., & CO., Manicure Sets, Grease Paints, Vacuum Flasks 2, 18
RADIUM SALT CO., Bath Salt xxvi
RANDALL & SON, Ld., Methylated Spirit..... 15
RAWORTH, J. E., Patent Agent xxvi
RESINOL CHEMICAL CO., Medicinal Proprietaries iii
ROBERTS, A. E., Cough Linctus xvi
ROBERTS' PATENT FILLING MACHINE CO. xxiv
ROQUES, FERDINAND, Alkaloids, Cacodylates iii
ROSMARINE MNFG. CO., Toilet Preparations 22
ROWE, A. GORDON, Honey, Lemon Curd xxvi
RUDD, F. M., Peppermint Oil 23
RUDDUCK & CO., Chemists' Shop Fittings .....Col. Supp.
RUSSIAN PRODUCE IMPORTERS, Potassium Carbonate, &c. v
SACCHARIN CORPORATION Ld., Saccharin..... 13
SANITAS CO., Ld., Disinfectants .....Text 988
SCHOOL OF PHARMACY xx
SHADEINE CO , Hair Dyes xxvii
SHIRLEY BROS., Ld., Tin Boxes, Packed Goods 16
SIM, Ld., Ampoule Files 18
SINGLETON & COLE, Ld., Tobacco and Cigars..... xxvi
SMITH, T. & H., Ld., Alkaloids, Resins & Resinoids .. xi
SOCIETEIT VOOR CHEMISCHE INDUSTRIE KATWIJK, Theobromine..... 18
SOFTO MANFG. CO., Shampoo and Face Powders xix
SOLPORT BROS., Ld., Corn Plasters, Puffs, Loofahs 26
SPATULA PUBLISHING CO., Books, &c..... xxi
SPENCER, ISAAC, & CO. (Aberdeen), Ld., Cod-liver Oil 15
STANDARD TABLET & PILL CO , Ld., Pills, Tablets Cover
STANDARDISED DISINFECTANTS CO., Disinfectants xxv
STEAD & CO., Photo Developing .....Col. Supp.
STEVENSON, H. E , & CO., Synthetic Ottos, &c. 21
STOKES, C. A., & CO., Ld., Shaving Sticks xxvii
SWALES, THOMAS, Loofahs, Corn Plasters xiv
THERMOGENE CO., Ld , Curative Wool 3
THEW, HOOKER & GILBEY, Malted Food..... 6
THOMPSON, J. L., & CO., Japanese Glassware.....xxvii
TOLKOWSKY, S., Russian Crude Drugs, &c. x
TOMLINSON, THOS., & SON, Chemists' Valuers Col. Supp.
TUNBRIDGE & WRIGHT, Fly Catchers xxv
TYRER, T., & CO., Ld., Bismuth Salts, Chemicals xiv
VAN HORN & SAWTELL, Surgical Ligatures xxvi
VENESTA, Ld., Tinfoil 29
VERNON & CO , Ld., Surgical Dressings, Lints xix
VICHY CO., Mineral Waters 12
VISCOSE DEVELOPMENT CO., Ld., Bottle Caps....xxiv
WALFORD & CO. Ld., Baking Powders xxvi
WARD & GOLDSTONE, Electrical Novelties xx
WASHINGTON CHEMICAL CO., Ld., Magnesia & Salts v
WATFORD MANFG. CO., Ld , Beverages 14
WATSON & CO., Photographics .....Col. Supp.
WESTMINSTER COLLEGE OF PHARMACY xx
WHIFFEN & SONS, Ld., Emetine Salts, Quinine, &c... v
WHITE, A., & SONS, Acids, Ethers, Technical Chemicals vi
WHITE, J. & J., Bichromates xvii
WILCOX, JOZEAU & CO , Continental Proprietaries Text 988
WILKINSON, J. F., Chemists' Printing xxiv
WILKINSON, S W., & CO., Tablet Machinery xxii
WILLIAMS, DR. EVAN, Henna Shampoo 24
WOOD, V., Trusses, Crepe Bandages, Rubber Goods xviii
WOODWARD W., Ld., Gripe Water xvi
WRIGHT, ARCHD. J., Ld., Electrical Novelties xxi
WRIGHT, LAYMAN & UMNEY, Ld., Coal Tar Specialities .....Cover
YOULDON, E., Ld., Medical Glassware xxiii
ZIMMERMANN & CO. (Chemicals), Ld., Chemicals .. iii



A PROFITABLE SPECIALITY

BEARING YOUR OWN NAME

LUNG TONIC

P. J. Form., therefore no stamps required. Known, admitted, and approved.

Profit over 100%, and nothing to do but hand it over the counter. Makes an effective Window Show. — Quick seller. Sure repeats. —

FREE Window Slips
FREE Showcards
FREE Delivery
FREE Packages
FREE Sample
NAME on Label
NAME on Carton

Two Sizes, selling at 7½ l. and 1/3.

Write for new scale of prices according to quantity ordered.

James Louis & Co

Manufacturing Chemists, THE BRIDGE STREET, DERBY.

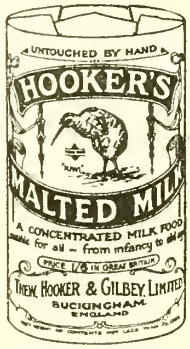
Apply for Prices for

PILLS, CAPSULES, TABLETS, AND OTHER OWN NAMED PACKED LINES.

HOOKER'S MALTED MILK

"A complete food." — *Lancet.*

SELLS ENTIRELY ON MERIT.



There is no Higher Quality or Better Value

BRITISH MADE & BRITISH OWNED

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.

PRICES AND TERMS FROM

THEW, HOOKER & GILBEY, LTD., BUCKINGHAM.

Sanaphos.

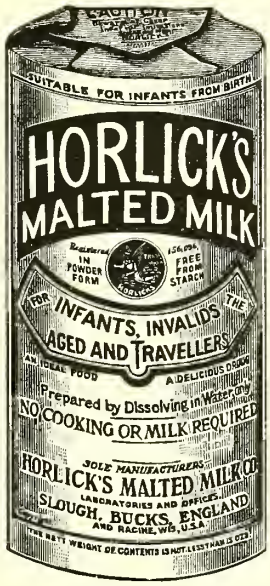
(T.M. Regd.)

One of many recent testimonials proving Sanaphos to be the best of all Phosphated Milk Products.

"The officer at Wimbledon is very much better and is going on with SANAPHOS. The Sciatica case is quite cured. One patient says that SANAPHOS is worth twice as much as Sanatogen. The other case, Neuritis, is also cured."

M.R.C.S.; L.R.C.P.E.

The fixed prices at which **Sanaphos** is sold show a net profit to the retail chemist of over 30 per cent. on selling price (over 40 per cent on cost). The wholesale prices are;—**1/-** size, **8/6** per dozen; **1/6** size, **12/9** per dozen; **2/6** size, **21/-** per dozen; **5/** size, **42/-** per dozen. **Sanaphos** is a reconstructive NERVE Food; Nutrient, Restorative and Activating. It is indicated in Mental and Physical Fatigue; Nervous Breakdown; Insomnia; and Neurasthenia. **Sanaphos** is an organically phosphated milk product, much superior to the German-owned article, and is prepared in England under strict scientific control. Chemists are invited to write for samples, showcards, and all particulars; and to send names of physicians, to whom we shall be pleased to send samples of **Sanaphos** and copies of numerous professional endorsements. Address: THE BRITISH MILK PRODUCTS CO., LTD., 69 MARK LANE, LONDON, E.C.



THE PACKAGE.

HORLICK'S MALTED MILK

THE IDEAL FOOD FOR ALL AGES.

NO ADVANCE IN PRICES OF EITHER POWDER OR TABLETS

Prices in single dozens, in both powder and tablet forms:

	Liquid Capacity of Bottles.			
1/6 SIZE	- 9 OZ.	- **14/9** per dozen.	Packed 1 dozen in a case.
2/6 SIZE	- 19 OZ.	- **24/9** per dozen.	Packed 1 dozen in a case.
11/- SIZE	- 99 OZ.	- **100/-** per dozen.	Packed 3 and 4 in a case.

If FULL dozens are ordered and an order made for £8 8 0 CARRIAGE WILL BE PAID IN GREAT BRITAIN, and the prices of the 1/6 and 2/6 bottles will become 14/- and 23/- per dozen each. Both powder and tablets and bottles and flasks may be included in the £8 8 0 lots. Less than one dozen 11/- bottles are charged at higher rates, and carriage is paid ONLY on the full £8 8 0 order. 1% for cash in seven days.

TABLETS ONLY IN FLASKS

ESPECIALLY CONVENIENT FOR SPORTSMEN, ATHLETES, CYCLISTS, TRAVELLERS, AND H.M. FORCES.

PACKED ONE DOZEN IN CARTON FOR COUNTER DISPLAY.

6d. SIZE, **4/6** per doz. **£2 10 0** per gross.
1/- SIZE, **9/-** per doz. **£5 0 0** per gross.

See above for terms and assortments.

Ration Tins **12/6** per doz., plus carriage, for any quantity.

SOLE MANUFACTURERS:—

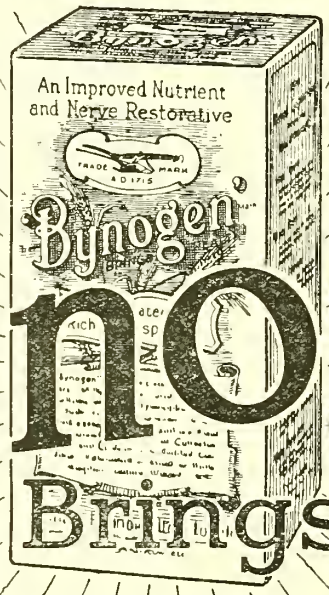
Horlick's Malted Milk Co.,
SLOUGH, BUCKS, ENGLAND.

THE FLASKS.

The Improved Casein-Glycerophosphate Food

'Bynogen'

Trade Mark



Brings Health

An Easily Digested Nerve Food Rich in Phosphorus

Composition of "Bynogen."

"Bynogen" is a combination of pure Milk Protein, 75 per cent., and specially prepared Dextrin-Maltose, 20 per cent., with 2 per cent. each of the Glycerophosphates of Soda and Lime, and 1 per cent. of Glycerophosphate of Magnesia.

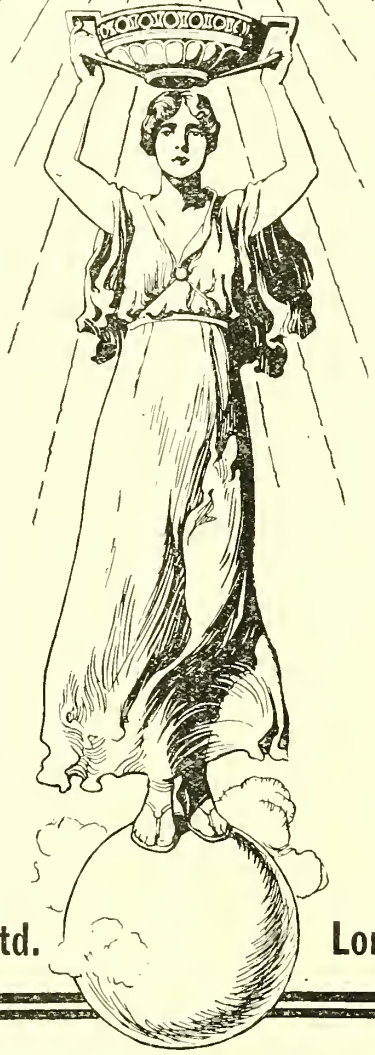
Uses of "Bynogen."

"Bynogen" is indicated in all Enfeebled Conditions, in Convalescence after Severe Illness, Mental and Nervous Exhaustion due to worry or overwork, Insomnia, Physical Fatigue, Wasting Diseases, Anæmia, Digestive Troubles, etc.

"Bynogen" is very helpful to Nursing Mothers for overcoming the strain caused by breast feeding.

Minimum Retail Prices: 1/9 and 3/- per bottle.

Gross Wholesale Prices: 17/- and 29/- per doz. bottles respectively.



A Concentrated Nutrient and Restorative

Advantages of "Bynogen."

"Bynogen" possesses a most attractive flavour and thereby overcomes the objection hitherto experienced in other somewhat similar products.

"Bynogen" strengthens digestion, improves nutrition, and does not cause constipation.

"Bynogen" is delicious when sprinkled on puddings, toast, etc. It mixes readily with milk and other fluids, or it may be eaten plain if desired.

Profit on "Bynogen."

"Bynogen" yields a profit on return of 25% monthly a/c terms. When "Bynogen" forms part of a £5 carriage paid general order for the "Allenburys" Specialities the profit on "Bynogen" is increased to 27½%

SAMPLES AND DESCRIPTIVE LEAFLETS FREE ON REQUEST

Allen & Hanburys Ltd. Lombard St., London.

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

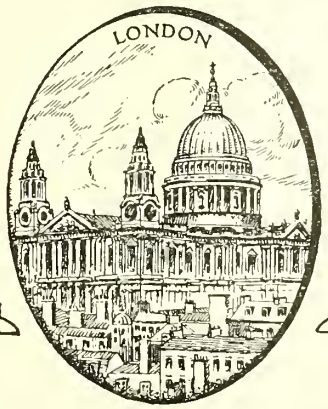
R. W. GREEFF & Co. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries

(WHOLESALE QUANTITIES ONLY)

Acetanilid
Amidopyrin
Barbitone
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cinchonine Sulphate and Muriate
Cinchonidine Sulphate
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Eucalyptus Oil—B.P. 70%
Formaldehyde
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Peppermint Oil
Pepsines, Pancreatin, Peptone and other digestive Ferments
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinine and Salts
Quinine Ethyl Carbonate
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
Tannin Albuminate
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin

R. W. Greeff & Co.,

THAMES HOUSE,
QUEEN ST. PLACE,
LONDON, E. C.



MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street.
ALSO AT
NEW YORK:
R. W. Greeff & Co.,
80, Maiden Lane.

The Vignettes which appear successively in this advertisement indicate the countries from which the products offered are mainly drawn.

"FARRIS'S"

Real Old-fashioned Air Bleached

BEES-WAX

GUARANTEED ABSOLUTELY PURE.

Immediate Delivery from Stock.

CHARLES FARRIS, 71 BISHOPSGATE, LONDON, E.C.

Works: HELMET COURT, BISHOPSGATE.

Warehouses and Stores: 91 & 93 BISHOPSGATE, and 12 WORMWOOD STREET, E.C.

ESTABLISHED 1845.

WAXES OF EVERY KNOWN KIND and FOR EVERY PURPOSE.

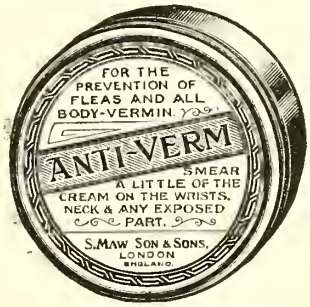
Telephones: London Wall 9397 & 9398. Telegrams: "Waxiness, Led, London."

EVERY MOTHER KNOWS THE NEED OF WARMTH FOR HER BABY. SHE SHOULD KNOW THE VALUE OF A "PAREX" RUBBER WATER BOTTLE FOR THE PURPOSE, 14 SIZES. PRICES ON REQUEST.

ANTI-VERM

A real necessity for our fighting men. Put up in screw-cap tins. Just a little of the cream smeared on the wrists, neck, or any exposed part will prevent fleas and all body vermin from troubling.

'Anti-Verm will be found a most efficient preparation.



PRICE 4/9 DOZ.
RETAIL 7½D.

Maw's S MAW SON & SONS (GPO BOX Nº 54) 7-12 ALDERSGATE ST LONDON E.C. Page

NUMBER 258 SEP. 23, 1916

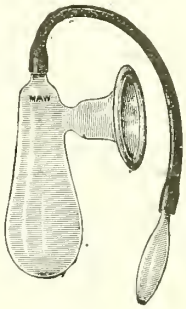
HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS.

B733/F & B734/F

are numbers by which Pharmacists *know* extra good value in British-made Breast Relievers.

B733/F or B734/F is the number quoted when real value is required.

These Breast Relievers are made from special stout glass tubing carefully annealed, and are fitted with selected rubber tubing.



B733/F or B734/F are patterns to recommend.

733/F - 7/- doz.
734/F - 7/6

Pictorial Power

Two of the most popular halfpenny illustrated newspapers in this country reach a combined yearly circulation of 1,000,000,000.

The modern public assimilates the world's happenings by means of pictures. A reproduced photograph visualises in a second what would take three minutes to describe in a column of reading matter.

. . .

On this page we again publish one of a series of drawings illustrating some of the various uses of a hot-water bottle. The final design will appear on October 7.

We particularly draw our customers' attention to these sketches because we are incorporating them in a leaflet for counter distribution, a supply of which will be included in all initial orders for our "Parex" (regd.) Rubber Hot Water Bottles. The leaflet will form a *pictorial* demonstration of the advantages of these Autumn and Winter requisites. Your customers will be able to see at a glance, as they see the daily news portrayed, the utility and advantages of this famous bottle.

. . .

These leaflets will be "backed up" by a most striking showcard bearing a reproduction of the "Parex" Bottle and emphasizing the red triangle which is in itself a guarantee of quality.

There is hardly any need to repeat here the fact that "Parex" Bottles are made in fourteen sizes, with reinforced seams, or to remind our customers that each one is manufactured in Britain. These details are known and appreciated by leading Pharmacists and Druggists throughout the world.

. . .

The artist responsible for these drawings has admirably depicted the different domestic scenes and infused each one with a delightful air of "homeliness" at once pleasing and attractive.

The leaflet will assuredly win more custom for the "Parex" Rubber Water Bottle.

We are booking orders now.

Capsule

TELEPHONE: CITY 7 (PRIVATE BRANCH EXCHANGE). TELEGRAMS: "ELEVEN CENT LONDON."

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

"FERROCARNIS"

A pleasantly flavoured solution of iron in organic combination with BRAND'S Concentrated Raw Meat Juice.

Ferrocarnis combines the stimulating properties of meat juice with the tonic effect of iron. This product does not cause constipation, and thus affords a means of administering iron to patients who are unable to take ordinary iron preparations.

PREPARED BY

BRAND & CO., LTD., MAYFAIR WORKS, SOUTH LAMBETH ROAD, S.W.

THE FRENCH NATURAL MINERAL — WATER. —

VICHY-CÉLESTINS

DISORDERS of the LIVER, GOUT, Diabetes, Rheumatism, Gravel, &c.

VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.

MODERN PHARMACEUTICAL PRODUCTS

SACCHARIN

Highest possible strength 550 times sweeter than cane sugar.
500 Soluble. 450 Crystals. 330 & 300.
All strengths supplied duty paid or in bond for export.

TRIVALIN

The substitute for Morphia.

Specially recommended in Painful Dressings Inoperable Cancer, Gall Stone, Sciatica, Neuralgia, Etc. In Ampuls for Hypodermic Injection, and in coated Tablets for internal administration.

NOVOCAIN

The non-irritant Local Anæsthetic, contains no Cocaine.
(Awarded Gold Medal XVIIth International Congress of Medicine, 1913.)

"CIBA" PREPARATIONS

Phytin	Digifolin	Dial	Elbon
Fortossan	Peristaltin	Lipoiodine	Menthescin
Ferrophytin	Euclottin	Vioform	Yohimbine

Prices and Literature on application.

The Saccharin Corporation, Ltd.,
PHARMACEUTICAL DEPT.,
36 & 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.

MALE GLASS SYRINGES.

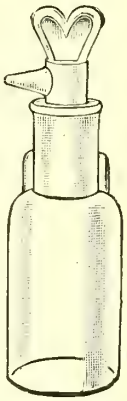
½-oz. and 1-oz.

DOUCHE LININGS, BEAKERS, AMPOULES, &c.

GLASS BOTTLES IN STOCK.

Vials, ½, 1 and 2 oz.; Conical Vials; Panels, 1 and 2 oz.; 1 oz. Limes (expected shortly); Oct. Green Smelling Salts (shortly); Tablet Bottles, Nos. 2, 3, 4 and 5; Tubes with metal caps; Test Tubes; Burettes (ordinary and shell-back): Boiling Flasks; Beakers; Measuring Flasks, 50 to 100 grammes; Concentrated Perfumes, with glass rod.

Also ALL THE USUAL ORDINARY BOTTLES.



T. K. Dropping Bottles.

½-oz. and 1-oz. in flint and amber.

Jules Lang & Son,

CHARLTON WORKS, Charlton Place, ISLINGTON, LONDON, N.

Telephone: NORTH 1344 (2 lines). Telegrams: "ASSORTED, NORDO, LONDON."

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants, Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

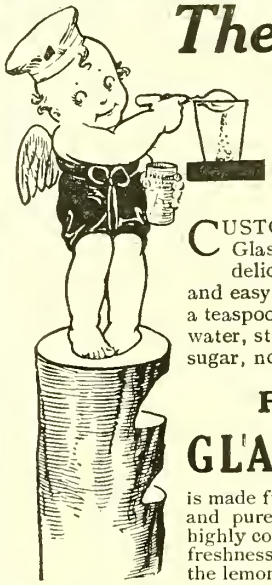
P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/-
" " " " " "	1/2	10/-
" " " " bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 1/6 12/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.



The top-notch SUMMER DRINK

CUSTOMERS ask for Freemans Glass-Lemon because it is so delicious, refreshing, economical and easy to make. You simply put a teaspoonful into a tumbler, fill with water, stir, and there you are. No sugar, no hot water, no bother.

FREEMANS

GLASS - LEMON

is made from the finest Messina lemons and pure cane sugar, reduced to a highly concentrated powder full of the freshness and revivifying qualities of the lemons. A ready seller that customers recommend. Profit by its thriftiness and thrive upon its profits.

NO ADDED SUGAR NECESSARY.

To retail in 7½d., 1/3, 2/6, and 10/- Canisters.

Full particulars from

THE WATFORD MFG. CO., LTD.

Proprietors of Freemans Table Dainties, Vi-Cocoa & Boisseliers (Boy-sel-e-a) Chocolates.

VICTORIA WORKS, WATFORD.

Freemans TABLE DELICACIES Watford

Finest Norwegian Medicinal Non - Freezing

COD LIVER OIL

(GUARANTEED NORWEGIAN)

WRITE FOR PRICES TO—

ISAAC SPENCER & CO. (Aberdeen) Ltd., ABERDEEN

WE CAN GIVE PROMPT DELIVERY.

WM. H. BOWDLEAR

Formerly of the W. H. BOWDLEAR CO.

respectfully solicits business from any and all former correspondents, either on a commission basis or otherwise.

CRUDE REFINED and BLEACHED } **BEESWAX**

Quotations given in £ sterling, per cwt.

220 DEVONSHIRE STREET (Room 201a), BOSTON, MASS., U.S.A.

Cable Address: "BURNSIDE." Code: A B C, 5th Edition.

EUCALYPTUS OIL, Rectified

Eucalyptol content 70 to 80%
Optical rotation .... 0 to 1
Specific Gravity .... ·919 to ·928

ABSOLUTELY FREE FROM PHELLANDRENE.

Quotations by cable. Wholesale trade only.

BURNSIDE & COMPANY

EUCALYPTUS OIL DISTILLERS,
EAGLEHAWK, VICTORIA, AUSTRALIA.

B. BROWN & BRO.

Importers and Exporters

DRUGS, CHEMICALS & VEGETABLE OILS

280 BROADWAY, NEW YORK, U.S.A.

S.V.M.

Best Quality Only.

RANDALL & SON,

Limited;

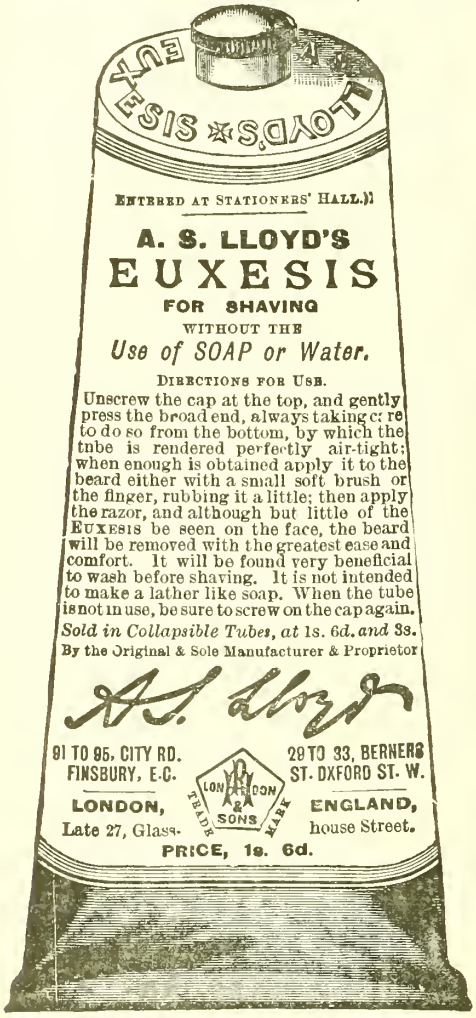
Wholesale and Export Druggists,

SOUTHAMPTON

A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- *per dozen;* **9/9** *by the 6 dozen.*
Retails at **1/6** *the Tube;* **3/-** *size to order.*

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: **R. HOVENDEN & SONS, LTD.,**
LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

"IT'S ALL IN THE EDGE."

Safety Razor Blades

RE-SHARPENED.

Any Style. **6d.** per doz. Returned post free same day.

Honed, Stropped, and Finished by the latest machinery.
SATISFACTION GUARANTEED.

William P. Kelland

36 Camomile St., London, E.C.

AND AT

LIVERPOOL - - 38 Church Street.
BIRMINGHAM - - 36 Cannon Street.
SHEFFIELD - 119 Wentworth Street.

P.S.—Send Blades to the nearest depot.

"PROFIT WITH ECONOMY."

(2)

Quick Sellers that yield Large Profits!

Peach Bloom Face Powder in three tints:—
2/- per dozen.
6 dozen lots **1/9**
P.A.T.A. **3½d.**

Whitecross Tooth Powder, two sizes:—
Small:—**3/-** per dozen.
3 dozen ... **2/9**
6 ,, ... **2/6**
1 gross ... **27/-**
Large:—**4/-** per dozen.
3 dozen ... **3/9**
6 ,, ... **3/6**
1 gross ... **39/-**

Formalin and Mint Tooth Paste, each in a carton, Thymol Tooth Paste, each in a carton, **4/-** per dozen.

Foot Powder, in dredger tins bearing illustration of a soldier ... ... **1/10** and **3/6** per dozen.

Solidified Brilliantine in collapsible tubes, half dozen on card ... ... **3/-** per dozen.

Violet Cold Cream, each in a carton, **2/-** dozen.

Special "M" Cold Cream in bulk:—
9d. per lb.
28 lb. lots **8d.**
56 ,, ,, **7½d.**
Special quotations for quantity.

Bay Rum:—2 oz. **3/3**; 4 oz. **6/-**

These are a selected few out of many lines we can now supply.

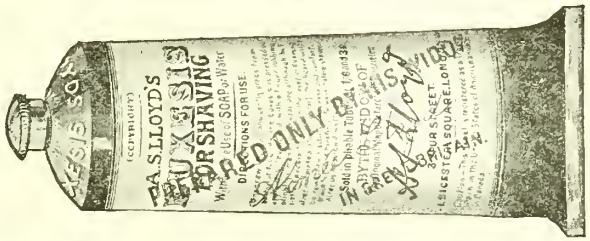
Shirley Brothers, Ltd., Whitecross Works, LONDON, S.E.

A. S. LLOYD'S EUXESIS

For Shaving without Soap, Water, or Brush.

CAUTION to the TRADE

Labels on the genuine **EUXESIS** not only bear signature of A. S. Lloyd in **Black Ink,** but also **"Prepared only by his Widow and signature of 'Aimee Lloyd'"** in **RED.**



Sole Manufacturers and Proprietors :

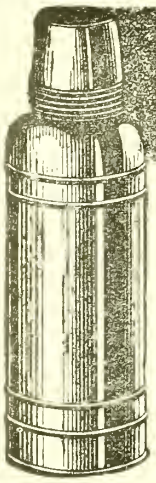
AIMÉE LLOYD & CO.,

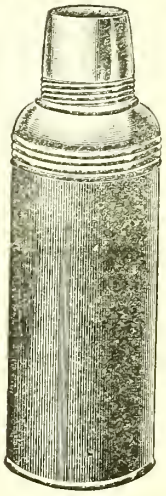
23 PANTON STREET
(Formerly named SPUR STREET),

HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

ICY-HOT BOTTLES





No. 44
Best Plain Nickel-Plated
10/6 each
92/- dozen

No. 88
15/6 each
135/- dozen

New Improved Style
23/6/7
Imitation Leather Enamelled on Metal
Pints
Retail, 4/11
48/6

This is the best bottle on the market, and buyers are recommended to order this pattern in preference to the old style.

No. 63/66
Quarts
Retail, 9/6
90/-

PINTS No. 22
Corrugated Nickel-Plated
8/6; 80/-

QUARTS No. 62
12/6; 111/-

VACUUM FLASKS

WE GUARANTEE that these **bottles are made in America by American Workmen.**

NOT AFFILIATED WITH ANY GERMAN COMPANY.

ALL BOTTLES EQUALLY GUARANTEED TO
Keep Hot things Hot 30 Hours.
Keep Cold things Cold 3 Days.

No. 16. ½ **pints** (same quality as No. 23/6/7), **45/-** dozen. **No. 46.** ½ **pints** (same quality as No. 44), **83/-** dozen. **No. 1.** 1 **pint** (same quality as No. 23/6/7, but solid leather covered), **66/-** dozen.

REFILLS. ½ Pint, **35/-**; 1 Pint, **38/-**; 1 Quart, **75/-** doz. **KHAKI-COLOURED CANVAS CARRIERS, with Sling.** Pint size, **12/-**; Quart size, **24/-** doz.

SOLID LEATHER CARRIERS, with Sling (British Made), Pints, **90/-** doz. **SOLID LEATHER SLINGS** (British Made), Pints, **24/-** doz.; Quarts, **30/-** doz. **SPARE CORKS.** Pints, **1/6** doz.; Quarts, **2/-** doz.

HENRY C. QUELCH & CO., LUDGATE SQUARE, E.C.
OR THROUGH ALL WHOLESALE LONDON & PROVINCIAL HOUSES.

FINEST QUALITY
MILK POWDER. CASEIN.
Inquiries and Orders Solicited.
PRIDEAUX'S LTD., DEPT. C, MOTCOMBE, DORSET.
LONDON OFFICE:
10 HOP EXCHANGE, Southwark Street, S.E.

'Phone: Battersea 1612.
V. A. PICERNO,
92 FALCON ROAD, BATTERSEA, S.W.
INQUIRIES SOLICITED FOR
Drugs and Chemicals
(TECHNICAL & PHARMACEUTICAL).

Acid Citric	Lithium Carbonate	Quinine Salts
,, Gallic	Lycopodium	Salicylates
,, Lactic 50% Edible	Magnesium Metal	Salol Santonine
,, Tannic Leviss	Magnesium Sulphate	Soda Benzoate
Barium Binoxide	Mannit	,, Hyposulphite
Cream of Tartar 99½%	Naphthaline Balls	Tartar Emetic 43/44%
Creosote B.P.	Phenazone	Terpine Hydrate
Hexamine	Phenacetin	Urea, pure cryst.

And all products used in the Pharmaceutical Industry for Prompt or early Delivery.

BENZONAPHTHOL
SALOL
SALICYLIC ACID
SODIUM SALICYLATE

MADERO BROS.
Incorporated,
115 Broadway,
NEW YORK CITY.
Cable Address: "MADEROBRO"
All Chemicals ready for shipment to England.

Ampoule Files
THE GREATEST PRODUCTION
IN THE WORLD.
THE BEST. THE CHEAPEST.
Prices and Samples sent on application to—
SIM LTD., Morges, Switzerland.
Major CYRIL SANKEY, late Royal Artillery, General Manager.

Theobromine Pure Alkaloid.
Theobromine Sodio-Salicylate
(chemically the same as Diuretine).
Tuberculine (prescription Denys, Koch and Roell).
Societeit voor Chemische Industrie Katwijk,
KATWIJK-AAN-ZEE, HOLLAND.

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF 1916 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

MONTHLY JOTTINGS

The October issue of "Monthly Jottings," a four-page folder dealing interestingly with all health topics, is now in the press.

It has been designed and written by men who know the principles of successful publicity from A to Z.

It is a certain sale-creator, and, being so laid out as to provide for the embodiment of your own name, lacks none of the merit of the personal appeal, while possessing a magnetising power which no pharmacist could, of his own unaided effort, possibly ensure.

Beside, if he could, the price would be prohibitive, whereas the cost under the system we adopt is only:

500 copies, 12/-; 2,000 copies, 15/6 per 1,000
1,000 „ 17/6; 5,000 „ 13/6 „

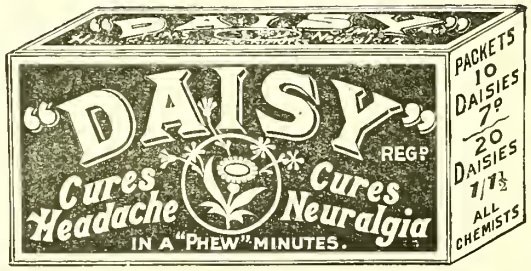
Therefore, if you have a mailing list—you should write us at once for this real aid to business growth.

THE HOLOYD ADVERTISING SERVICE
60 Tennyson Road, Small Heath, BIRMINGHAM.

N.B.—That "Monthly Jottings" is only supplied to one man in one town or district—are you going to be that man?

will help you build your Business

KEEP "DAISY" ON YOUR COUNTER.



How many proprietary lines are there in your stock that are advertised to the extent of "Daisy" and yet which allow you a profit of over 100%?

We venture to say—none. It is to the interest therefore of every chemist to help us with our schemes.

We impress upon the public through the medium of the press that "Daisy" should be kept in every home.

If therefore you keep a packet of "Daisy" in a prominent place on your counter it often serves as the final reminder which brings off the sale. Try it—the results will astonish you.

May we send you along some advertising matter or quote you our lowest wholesale terms.

DAISY LTD. Mammoth Works, **LEEDS.**

ESTABLISHED 1893. *TELEGRAMS: "DAISY LEEDS."*

Award, London, 1881: "For Excellence of Quality."

Contractors to H.M. Government, The Crown Agents for the Colonies, etc.

SYNTHETIC OTTOS

"Zinyl" Brand (Regd.)

TRUE SYNTHETIC PRODUCTS (Non-Alcoholic)

These should not be compared with the "cheap" compounds offered, which are merely mixtures of various essential oils. To Buyers who have not hitherto bought these Synthetic Ottos their use will come as a revelation, and as in most instances the Ottos are actually stronger than the essential oils they are intended wholly or partially to replace, they are most economical in use, while their similarity to the actual flowers is surprising. A feature of the "Zinyl" Brand is the natural delicate flower odour, free from the very objectionable and crude characteristics of cheap synthetic perfumes.

HELIOTROPE	8/6 oz.	HYACINTH	9/6 oz.
LILY OF THE VALLEY	13/6 oz.	NEROLI	8/6 oz.
JASMIN	10/6 oz.	VIOLET	10/6 oz.
CARNATION	8/6 oz.	WALLFLOWER	10/6 oz.

ROSE. One of the finest and most delicate Synthetic Ottos on the market. The "Zinyl" Brand passes the most discriminating tests, and is almost indistinguishable from genuine otto; and, though much stronger, costs but a fraction of the price. **13/6 oz.**

FULL LIST ON APPLICATION.

"A Triumph of Modern Synthetic Chemistry."—"C. & D." in 1912.

H. E. STEVENSON & CO.

Manufacturing Chemists and Wholesale Druggists,

122 GREAT SUFFOLK ST., LONDON, S.E.

Mr. Stevenson was for many years a Director of BAISS BROTHERS & STEVENSON, LTD.

"LESCOL" FLORAL PERFUMES

NOTE: Notwithstanding the shortage in cut glass and moulded bottles and fancy cases, we beg to inform you that we are exceedingly well placed, but as we are already receiving orders for Xmas trade would advise you to order early to avoid disappointment.

□ □ □

On receipt of a postcard stating requirements, our representatives will receive instructions to call with a full range of Samples.

LESCOL PERFUMERY CO., Lomond Grove, Camberwell Green, LONDON, S.E.

Telephone: 810 HOP.

Telegrams: "VANILLIN, CAMBER, LONDON."

A powerful antiseptic and deodorant.

"PETAL DUST" REGD.

The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. "PETAL DUST" has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

Retails in 3d. and 6d. packets

Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

SOLE PROPRIETORS—

THE ROSMARINE MANUFACTURING COMPANY,

STAMFORD STREET, LONDON, S.E.

CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.

MAGNUS, MABEE & REYNARD, Inc.

257 Pearl Street,
New York City, U.S.A.

Cable Address—"MAGLAUR."

Importers and Manufacturers.

ESSENTIAL OILS, VANILLA BEANS, DRUGS & CHEMICALS.

We offer for sale—

Oil Peppermint, American
,, Spearmint
,, Birch (Wintergreen)
,, Wintergreen Leaf
,, Cedarwood
,, Limes, Distilled
,, ,, H.P.

Oil Sassafras, Natural
,, ,, Artificial
,, Wormseed, Baltimore
,, Wormwood, American
,, Sandalwood, W.I.
Balsam Tolu
,, Copaiba
,, Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

F. M. RUDD,
Bronson,
MICHIGAN,
U.S.A

GENUINE AMERICAN
PEPPERMINT OIL

"Columbia" Natural
"Diamond White"
Re-distilled.

Finest qualities for Druggists, Distillers and Confectioners.

Sole Consignees in United Kingdom—
R. W. GREEFF & CO.
Thames House,
Queen St. Place, LONDON, E.C.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz. Plain or graduated.
BEST QUININE, TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz. Plain or graduated
WHITE PHIALS.—½ oz., 1 oz., 1½ oz., 2 oz. Plain or teaspoon.
BLUE LOTION BOTTLES.—½ oz., 1 oz., 1½ oz., 2 oz., 3 oz., 4 oz. 6 oz. 8 oz., 12 oz.
PANEL BOTTLES.
We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.
CORKS.
Good quality. No advance in price: 6 and 8 oz. bottles, 1/- per gross in 6 gross bags. Vials 9d. per gross in 3 gross bags.

I. ISAACS & CO.,
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
Or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.
Orders sent to either establishment have attention.
Established 100 Years

A. Boake Roberts & Co., Ltd.,
STRATFORD, LONDON, E.

. . FOR . .

SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

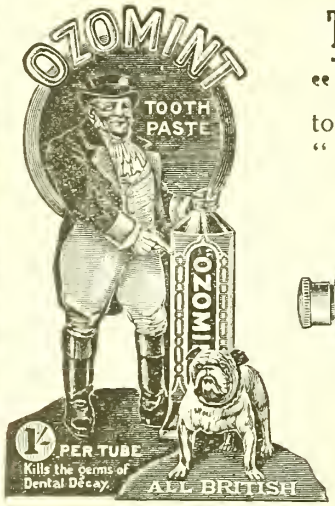
If you wish to make first-class ∴ Aerated Waters, use ∴
BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Lemon,
Orange,
Ginger,
Ginger Ale,
Stone Ginger Beer *(Cloudy),*
Clear Ginger Beer,
Kola Champagne,
Lime Juice and Soda,
Lemon Squash,
Raspberry,
Strawberry,
Pineapple,
Vanilla, &c. &c.

GOLDEN CARAMEL COLOURINGS, &c. and all sundries.

A. Boake Roberts & Co., Ltd.,



THE NEW TOOTH PASTE.

"OZOMINT" has been produced to replace the German Tooth Paste "PEBECO," which is now practically unobtainable.

DO YOU STOCK IT?
NOW is the time to push.

EACH TUBE PACKED IN A SEPARATE CARTON,
12 CARTONS IN ATTRACTIVE CARDBOARD OUTER.

Free Handsome Showcards (as illustrated) with Orders for 1 dozen.

Price 7/6 per dozen tubes.

CUXSON, GERRARD & CO., Ltd., OLDBURY.

DR. EVAN WILLIAMS' ORIGINAL HENNA SHAMPOO

A Business Vitalizer, something with Real Force behind it.

Apply for Descriptive Price List and Trade Terms,
289, OXFORD ST LONDON, W.

Adeps Lanae, P.B.

BRITISH LANOLINE, "EMPIRE BRAND." **Hydrous & Anhydrous.**

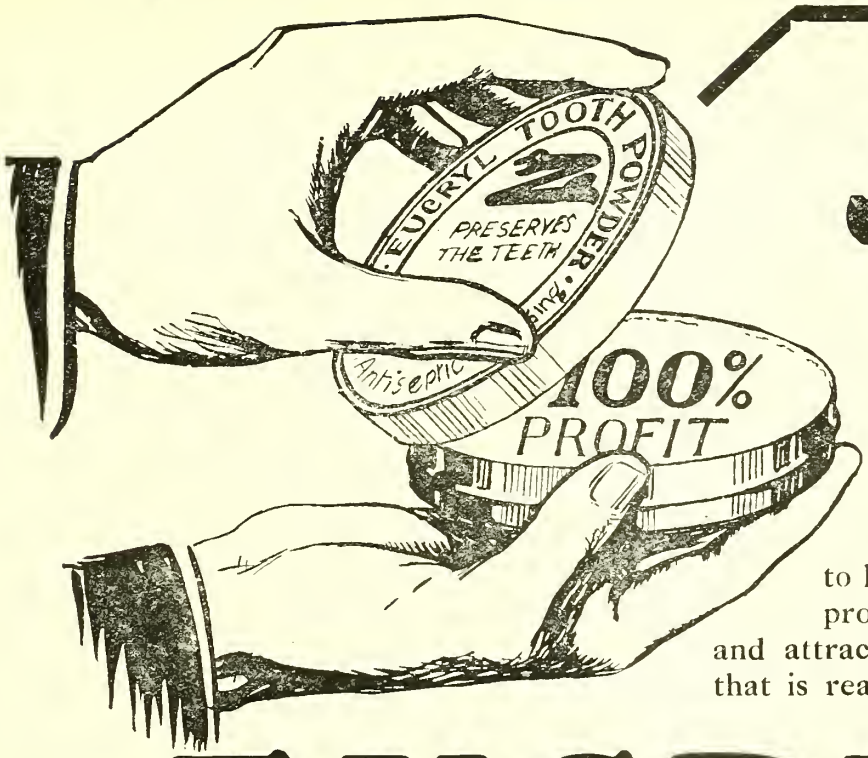
Specially prepared by Qualified Chemists for Pharmaceutical use.

NOTHING BETTER ON THE MARKET.

MANUFACTURED BY THE ORIGINAL BRITISH MAKERS,

THE BRITISH LANOLINE CO. (Sole Proprietors—Howard Lloyd & Co., Ltd.) **LEICESTER.**

ENQUIRIES SOLICITED.



It will pay you

to look into the EUCRYL proposition, for it is sound and attractive business—business that is really worth while.

EUCRYL

TOOTH POWDER

nets you 100% profit. We venture to say that no other dentifrice of a similar character offers you so profitable a return, and Eucryl is British, remember! Therefore display Eucryl boldly on your counter — tell your assistants to bring it forward—as the Public prefer to take British goods when British goods are offered them.

Fill in the attached Coupon at once, and participate in the 100% bonus terms.

EUCRYL LIMITED, 61-63 LANT STREET, SOUTHWARK, S.E.

ORDER COUPON

To **EUCRYL LIMITED,**
61-63 Lant Street,
Southwark, S.E.

Please send 6 dozen 6d. tins Eucryl Tooth Powder, at 3/6 dozen net, **carriage paid,** together with 2 dozen 6d. tins extra and free of charge as bonus, for which I enclose remittance value 21/-.

C. & D., Sept. 23. 1916.

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO.
LIVERPOOL - - - MANCHESTER

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs, and smaller packages according to requirements.

Inquiries are solicited for this article of **BRITISH MANUFACTURE,** and buyers may rely that for quality and price it will meet any competition.

Other Grades

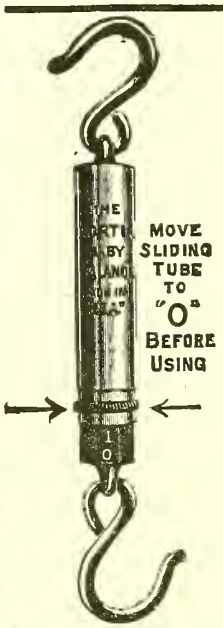
Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ,' a certain cure for Eczema.

'Phone: 186 Bootle. Wires: "Cestrian Liverpool."

A Profitable Seller



THE

"PORTIA"

(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
11/6	**1/6**
dozen.	each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,

184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.

BAISS BROTHERS & Company, Ltd.

SURGICAL INSTRUMENTS AND HOSPITAL FURNITURE.

DRESSINGS.

STERILISERS FOR DRESSINGS AND INSTRUMENTS.

WATER BEDS, AIR CUSHIONS AND ENEMAS.

DISPENSING SCALES AND WEIGHING MACHINES.

SURGEONS' AND MIDWIVES' BAGS.

VETERINARY INSTRUMENTS, ETC.

NOTICE.

From the 28th August, 1916, **Baiss Brothers & Stevenson, Ltd.**, will be known as

BAISS BROTHERS & COMPANY, Limited

following the style of the firm 80 years ago, when it was Baiss Brothers & Company.

FINE CHEMICALS OF ALL DESCRIPTIONS.

STANDARDISED TINCTURES AND EXTRACTS.

CONCENTRATED INFUSIONS AND DECOCTIONS.

DISINFECTANTS.

POWDERED DRUGS, STANDARDISED.

PILLS AND COMPRESSED TABLETS.

CONCENTRATED SOLUBLE ESSENCES.

CHEMISTS' PACKED SPECIALITIES.

EMULSION OF COD LIVER OIL, ETC.

PRICE LISTS IN VARIOUS LANGUAGES.

BAISS BROTHERS & COMPANY, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments,

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.

Drug and Herb Farm: CARSHALTON, SURREY. Drug Mills: Grange Works, BERMONDSEY. Established 1833.

BEETHAM'S "LAROLA"

(Registered)

Is the Skin Tonic for 1916.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and to all roses, even the word "Larola" being formed from prickly rose-stems The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

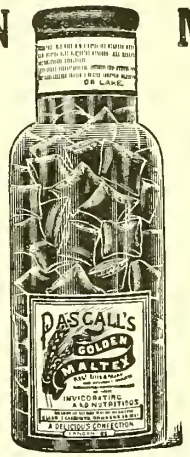
This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

PASCALL'S

GOLDEN MALTEX

Contains 25% Pure Malt Extract



of especial food value for Children.

¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

¶ Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

PETROLEUM JELLY

We are importers of finest American Jelly, Red, Yellow and White. Guaranteed B.P. Inquiries esteemed also for

GUMS. WAXES. DEXTRINE.

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

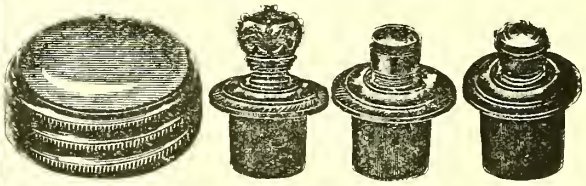
Telegrams: "KIDSTONISM, BILGATE, LONDON." Telephone: AVENUE 8057.

EVERY GENUINE PACKAGE

BEARS THIS LABEL

EWEN'S LARD

is the ONLY LARD that is made exclusively for pharmaceutical and perfumery preparations and is the **BEST AND MOST RELIABLE** Guaranteed B.P. Lard on the Market.



BROOKS, PEEL & CO., LTD.

Makers of Collapsible Tubes and Filling Machines for same. Patentees of Sprinkler and other Stoppers for Perfumes, Washes, &c. Screw Caps.

24 City Road, Finsbury Square, London, E.C.

TIN FOIL

BRITISH MAKE

HIGHLY polished, printed, coloured or embossed. Pure tin, guaranteed free from lead. For wrapping chocolates, cigarettes, cigars, foodstuffs, etc. etc.

ALSO

CONFECTIONERS' and Bakers' trays, stock boxes and bins, and cases of all descriptions for home or export. Made from the famous "Venesta" plywood.

VENESTA, LTD.

1 GT. TOWER STREET,
LONDON, E.C.

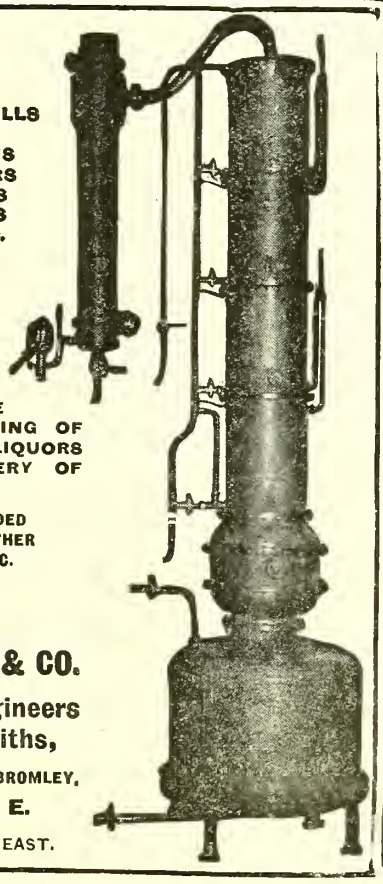
COPPER

VACUUM STILLS
DIGESTERS
JACKET PANS
PERCOLATORS
CONDENSERS
EMULSIFIERS
ETC. ETC.

PATENT STILL

FOR THE STRENGTHENING OF ALCOHOLIC LIQUORS AND RECOVERY OF SOLVENTS.

HIGHLY RECOMMENDED FOR ACETONE, ETHER PETROL, ETC. ETC.



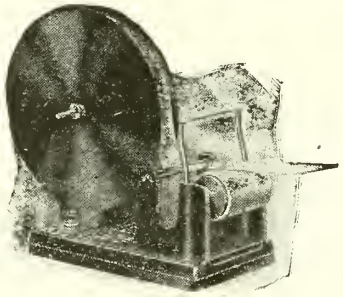
JOHN DORE & CO.

Distillers' Engineers & Coppersmiths,

28-30 HIGH STREET, BROMLEY,
LONDON, E.

Telephone: 136 EAST.

HOW do you seal your Parcels?



This little machine, the "DEMON," will secure them with Gummed Paper Tape NEATLY, QUICKLY & EFFECTIVELY at a fraction of the cost of string or sealing-wax.

Send a postcard for particulars to

FAIRE BROS & CO., Ltd., Leicester

And 19 Fore Street, London, E.C.

In the Syphon

It is *quality* in the syphon that counts. **Back-pressure puts it there.**

High-pressures in the aerating cylinder won't do it. All that means is big gas bills and many syphon breakages.

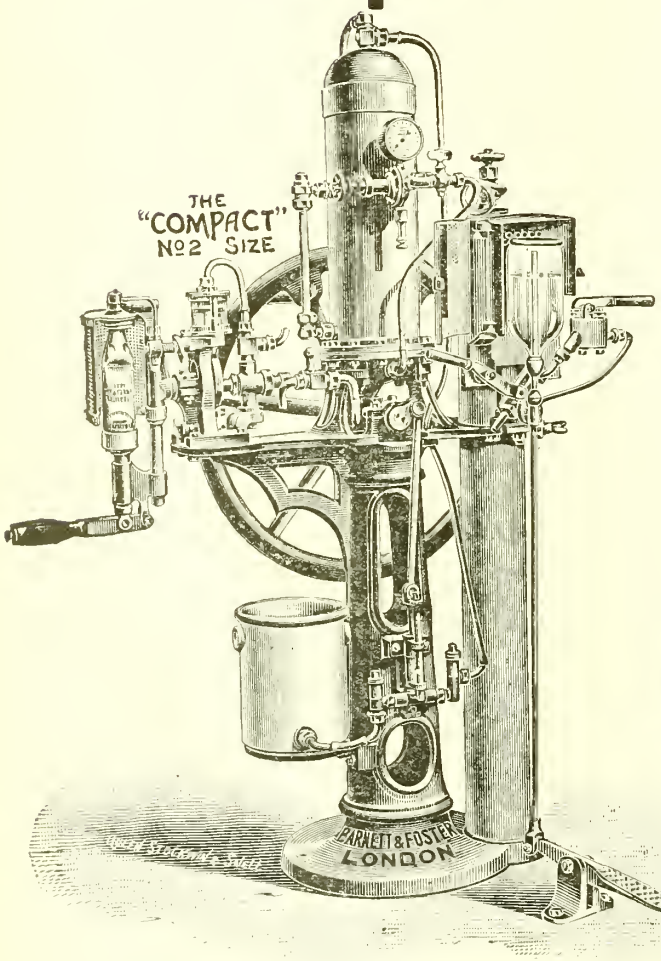
— o —

It's usual to aerate to 180 to 200 lb. to leave 60 lb. in the syphon! True, but this means loss of gas—a lot of gas.

The remedy is back-pressure filling. Waters aerated to 60 lb. will show 55 lb. in syphon—a clear saving of more than 50 per cent. in CO_2 alone, while the lower bottling pressure reduces breakage to a minimum and ensures the supremely perfect product.

— o —

Write for particulars of "Compact" Back-Pressure Soda-water Machines.



Barnett & Foster

(Proprietors of Galloway Brothers)

ENGINEERS,

Contractors to the War Office and Crown Agents,

Dept. O, Niagara Works, London, N., and at BOLTON, LANCS.

Telegrams: "Drinks London"; "Soda Bolton."
Telephone: London 1605 North; Bolton 545.

"Compact No. 2"

Soda-water machine complete with inverted gun-metal pump; automatic saturating cylinder; Ideal turnover filler with syrup pump and syphon filler.

Price £50 : 2 : 0

(not including gas flask)

No. 170

The New British-made Developer

'TANCOL'

TRADE MARK 'TABLOID' BRAND 'TANCOL' TRADE MARK DEVELOPER

Will be greatly appreciated by every photographer, especially those who use a tank for development.

Originated by
Burroughs Wellcome & Co.

The successful result of special study of the requirements of the tank method.

Equally good for use in the dish.

'Tabloid' 'TANCOL' will be a big success. It is selling briskly already.

Lose no time in obtaining a stock and participating in this new business.

Contents of carton make from a half to over one gallon of solution. Price 16 0 per dozen cartons, subject.

'TABLOID' 'TANCOL' is made at the 'Wellcome' Chemical Works, Dartford, Kent

Suits all tanks

Suits all films and plates

Gives "pyro quality"

Measurements: 4 × 2¼ × 1½ in

BURROUGHS WELLCOME & CO.
LONDON

NEW YORK MONTREAL SYDNEY CAPE TOWN
MILAN SHANGHAI BUENOS AIRES BOMBAY

G 735

COPYRIGHT

TABLETS

Close Prices for Quantity.

PILLS

Contractors to H.M. War Office.

Write:=
H. & T. Kirby & Co. Ltd.,
Newman House, Belton Road,
Willesden Green, London. N.W.

Wire:=
Kirby Limited Willroad London
(3 words only.)

'Phone:=
Willesden. 1412.

ESTABLISHED 1866

The *Lancet* describes it as "Mr. Benger's admirable preparation."

BENGER'S

GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.

The *British Medical Journal* says: "Benger's Food has by its excellence established a reputation of its own."

FOOD FOR INFANTS

INVALIDS AND THE AGED.

Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A.
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal & Branches.

ON THE P.A.T.A.

66⅔%

ZEPTO

WINDOW MAKES BUSINESS HUM—AND COIN SPIN

We still peg away with our lay press advertising. Nothing winds up customers to the need of Tooth care quicker than our CLOCK WINDOW SHOW. The returns are topping, and so is the string of sales in other dental commodities which Zepto induces customers to buy. Zepto "chips" out nothing you already sell, **which means more business.** The show goes out with a six dozen order on our generous terms while they last—the end is near.

NO PROFIT LIKE ZEPTO—NO SALES LIKE ZEPTO. NOTHING EASIER TO SELL.

MIN. 66⅔% P.A.T.A. PROFIT.

4/6 PER DOZ.

MIN. P.A.T.A. **7½D.**

THOS. CHRISTY & CO., Old Swan Lane, LONDON, E.C.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of eighteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

Subscription Rates.
Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6*d*.; Summer or Winter Number, 1*s*.; *Diary* 3*s*. 6*d*. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12*s*. 6*d*., franco.

Цѣна годового абонемента: Газета еженедѣльно и Дневникъ разъ въ годъ 12 шиллинга 6 пенсъ съ пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.
Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 39 (Series No. 1913), Vol. 88.

	PAGE		PAGE
Bankruptcy Report	38	French News	37
Birth	39	German News	37
Business Changes	46	Information Department	41
Cape Pharm. Society	37	Insurance Act Dispensing:	
Colonial and Foreign	38	Walsall Inquiry	45
Coming Events	33	Reports and Notes	46
Contracts	35	Irish News	34
Correspondence:		Legal Report	38
Nationalised Competitors;		Marriage	39
Jay Mack's Curriculum;		New Companies	38
Insurance Agreements	51	Observations and Reflections	41
Subscribers' Symposium	51	Personalities	46
Legal Queries	51	Pharm. Soc. (Ireland):	
Miscellaneous Inquiries	52	Council-meeting	45
Deaths	39	Poisonings	36
Editorial Articles:		Retrospect	52
Insurance Agreements	42	Scottish News	36
A Great Physician	43	South African News	37
Government and Shellac	43	Trade-marks	47
Liquorice-juice	43	Trade Notes	47
Commentary	44	Trade Report	48
English News	34	U.S.P., IX. (Chemistry)	40
European War	33	Wills	39

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, September 24.

Pharmacist Volunteer Training Corps, Herne Hill entrance to Brockwell Park, at 10 A.M. Members unable to be present then should attend as soon as possible. On Wednesday and Thursday the parade is at 3 P.M.

Leicestershire Volunteer Regiment, Pharmacist Sanitary Section, County Cricket Ground, Leicester, at 10.30 A.M. Parade. There will be a lecture by Dr. Barnes at the Technical Schools (Room 27), at 8.30 P.M., on Wednesday, September 27.

Tuesday, September 26.

Cardiff Pharmacists' Association, Angel Hotel, at 8.45 P.M. Discussion on minimum price-list and earlier closing.

Wednesday, September 27.

Borough Polytechnic Institute, Borough Road, London, S.E. First lecture of course by Mr. C. T. Bennett, B.Sc., on "The Chemistry and Technology of the Essential Oils."

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—The opening of the 75th session of the School of Pharmacy will take place on October 4, at 3 P.M. The President (Mr. E. White, B.Sc.) will deliver the inaugural address.

WESTERN PHARMACISTS' ASSOCIATION.—The annual reunion will be held at the Restaurant Frascati, Oxford Street, London, W., on October 5. There will be a supper and whist-drive after the reception at 6.30 P.M. Tickets—members and lady accompanying member 3*s*. 6*d*. each, visitors, 5*s*. each—from Mr. C. Brooks, 4 Northumberland Avenue, W.C., and Mr. W. E. D. Shirtliff, 66 Goldhawk Road, W.

European War News.

Prohibited Exports and Imports.

DENMARK.—Apricot-kernels have been added to the list of prohibited exports.

Personalia.

MR. J. A. SCROGGIE, of the India Police Service, eldest son of Mr. J. H. Scroggie, chemist, Lauder, Berwickshire, who soon after his arrival in India applied for transference to the Army, is now second lieutenant in the 15th Sikhs.

PRIVATE WILLIAM HARPER, of the Argyll and Sutherland Highlanders, who served his apprenticeship with Mr. W. G. Reid, chemist, Wick, was wounded last month, and is now in hospital in Guildford. He was an assistant to a firm in London before the war.

STAFF-SERGEANT A. C. AUSTIN, eldest son of Mr. R. A. Austin, Ph.C., Bray, Ireland, and lately with Mr. Cleghorn, chemist, Cape Town, has rejoined the Army Medical Corps for the remainder of the war. He is on service at the 1st General Hospital, Wynberg, Cape Province.

MR. A. HEATLEY, one of the town travellers of F. Schutze & Co., Ltd., Black Bull Works, Caledonian Market, London, N., will shortly be joining H.M. Forces. One of the North Country representatives, Mr. H. E. Bellamy, who has been with the Expeditionary Forces since the early days of the war, has now been invalided home, and, it is hoped, will be resuming his former work shortly.

Drugs for Malingerers.

The following regulation has been made under the provisions of the Defence of the Realm Act, and has been published in the "London Gazette":

After Regulation 40B the following regulation shall be inserted:

40C.—If any man of his Majesty's Reserve Forces not for the time being subject to the Naval Discipline Act or to military law, when under orders to report himself for medical examination, malingers or feigns any disease or infirmity, he shall be guilty of an offence against these regulations.

If any such man produces any disease or infirmity in himself, or maims or injures himself, or causes himself to be maimed or injured, or takes or uses any drug or preparation, or does any other act calculated or likely to render him, or to lead to the belief that he is permanently or temporarily unfit for service, he shall be guilty of an offence against these regulations, unless he proves that he did not so act with the intent of escaping service.

If any person—

(*a*) wilfully produces any disease or infirmity in, or maims or injures, any such man of his Majesty's Reserve Forces, or any man belonging to any other of His Majesty's Forces, whether or not he knew that the man was such a man as aforesaid; or

(*b*) with the intent of enabling any such man to render himself, or induce the belief that he is, permanently or temporarily unfit for service, supplies to or for such a man any such drug or preparation as aforesaid;

he shall be guilty of an offence against these regulations.

Military Tribunals' Decisions.

The following are additional decisions made by military tribunals:

BERMONDSEY.—Meggeson & Co., Ltd., medicated-lozenge manufacturers, 14 Miles Lane, Upper Thames Street, E.C., obtained a further two months' exemption for the head of the despatch department.—Baiss Bros. & Co., Ltd., were granted exemption for a foreign correspondent until January 1. In regard to other applications from the same company, those of two dispensers were disallowed, and one was adjourned for medical examination.

BLACKBURN.—Mr. R. Brandwood, Shear Brow Drug Stores, was exempted until the end of September, but is appealing against this decision.

BLACKHEATH.—Butcher, Curnow & Co., Ltd., chemists, applied for exemption for Mr. E. A. Ray, who has been engaged for eighteen years in the preparation of homœopathic medicines, for which special knowledge is needed. He also supervises the export of medicines. One month's exemption was granted.

BRISTOL.—The application of Mr. C. A. Stokes for exemption of an assistant was refused, the Chairman of the Tribunal remarking that it was "absolutely unpatriotic" to suggest that the matter would be taken up with the Insurance Commissioners. Considerable resentment has been caused by the Chairman's remark, and Mr. Stokes

has issued a statement in regard to the matter, in which it is mentioned that out of eleven men employed in the businesses at the outbreak of war, six are serving the country.

Camberwell.—Mr. A. P. Reid, disinfectant maker, 255 Peckham Rye, S.E., was granted conditional exemption.

Carlisle.—Conditional exemption was granted to Mr. T. W. J. Beaty, chemist and druggist, assistant with Mr. R. R. Hallaway, Ph.C.—The application was refused of H. McGeorge, assistant with Mr. Thomas Ridley, chemist and druggist.

Cowes.—Mr. F. W. Beken, chemist and druggist, applied for exemption for himself and also for his assistant, Mr. F. R. M. Wilkins. Mr. Beken received conditional exemption, but the other case was adjourned for a month.

Dowlais.—Six months' conditional exemption was granted at the Merthyr Tribunal to Mr. D. W. Evans, chemist and druggist.

Gillingham.—Conditional exemption was granted to G. A. Blandford, apprentice with Mr. A. Stooke, chemist and druggist.—Six months' exemption was given to Mr. F. C. Peebles, chemist and druggist, manager for the Timothy White Co., Ltd.

Letterston.—W. D. John, assistant to Mr. H. A. Williams, chemist and druggist, was granted conditional exemption.

Merthyr Tydfil.—Abraham Bloom, a student of chemistry and pharmacy, was granted two months' exemption to enable him to complete his college course.

Oswestry.—R. Herbert Sockett, with Mr. W. Carter, chemist and druggist, was granted exemption until December 1.

Oxford.—Mr. H. O. Oddy, chemist and druggist, trading as Houghton & Son, was granted conditional exemption.

Peterborough.—Four months' exemption was granted to each of the following: Mr. C. Hamson, chemist and druggist; Mr. Fred Calder, chemist and druggist; Mr. C. C. Carter; Mr. Ely Sharman; and Mr. H. C. Pick. Mr. W. Freeman, traveller with Sturton & Sons, Ltd., was granted 2½ months' exemption.

Shoreditch.—Exemption until December 31 was granted to H. J. Corrick, H. J. Edwards, and E. Hyams, with Sharland & Co., export drug-merchants, Eldon House, Eldon Street, E.C.

Walmer.—Conditional exemption was granted to Mr. S. E. Thomsett, chemist and druggist, manager for Mr. H. Wood, chemist and druggist.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Dr. A. J. Barnes, President of the Dublin Retail Drug Association, is one of the candidates for the Pharmaceutical Council.

Private Thomas Larkin, Royal Irish Rifles, who has been wounded, was before the war an assistant with Gilmer, Moore & Chestnutt, Ltd., chemists and druggists, Ballymena. He enlisted a year ago.

After disputing the matter for the last twelve months it was unanimously decided at the Croom Board of Guardians that Mr. Walter Thorp, analyst, should be retained at his present salary of 10*l.* 10*s.* and 6*s.* per sample for each drug-sample in excess of thirty-five in any year.

Miss Ruth Lemon, daughter of Mr. Thomas Lemon, Ph.C., Market Hill, co. Armagh, and pupil of Victoria High School, Londonderry (the Misses MacKillip), has passed through all the stages of Irish Intermediate examinations with distinction, having obtained this year the Irish Society's Trinity scholarship, valued at 180*l.* Miss Lemon, who is still in her teens, is also an accomplished musician, and holds certificates for both pianoforte and violin playing. She is entering Trinity College, Dublin, as a medical student.

The late Mr. Joze's Estate.

In the Probate Court, Dublin, on September 14, motions were listed on behalf of Mr. T. W. Hadden, Ph.C., Rathdowney, and the Rev. J. H. Moran, rector of Cahernarry, Limerick, in regard to the estate of the late Mr. T. M. Joze, Ph.C., who was killed during the Dublin insurrection. The estate, which owes Mr. Hadden 58*l.* 6*s.* 8*d.* for seven months' salary, is believed to be insolvent, but Mr. Moran, one of the next-of-kin, denied that the estate is insolvent. The matter was allowed to stand over, with liberty to reinstate. The Judge said he wished to be satisfied upon the point as to whether there are any debts due to the estate.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

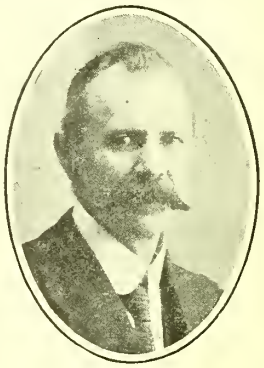
Bowling.

The "final" of the series of matches organised by "The Script" Sports Club was played at Wood Green on Thursday, September 14. The game decided the 1916 championship, and was followed with keen interest, the result being a well-merited win for the Northern team by 61 points. The players and scores were:

Northern.		South Eastern.	
1. Mr. McRostie 2. Mr. Rawlins 3. Mr. J. R. Dow 4 Mr. Duncan Bowie	21	1. Mr. Sayers 2. Mr. Wing 3. Mr. Tugwell 4. Mr. Winzer	10
1. Mr. Honiatt 2. Mr. Wynne Williams 3. Mr. Grassick 4. Mr. W. B. Dow	40	1. Mr. Foulsham 2 Mr. Foster 3. Mr. Siddle 4. Mr. Ralph	10
	61		20

For the Northern on No. 1 rink, Captain Bowie both skipped his men and trundled in old-hand fashion. For the S.E., Captain Winzer produced much of his Kent County form. On No. 2 rink, Skipper Dow and his men played a great game, but Skipper Ralph got no luck at all. At the conclusion a good company adjourned for tea at Williamson's Restaurant, where an enjoyable hour was spent.

A handicap-game was played between eleven members of the East London Pharmacists' Club on Poplar Bowling Ground on Thursday, September 14, to determine the best man of the season. Mr. Wilson (scratch) was the winner, after successfully lowering the colours of Mr. Goode (4), Mr. Keith (2), and Mr. Abelson (3). The two latter won their heats against Mr. Styles (3) and Mr. Wood (3) respectively. A very interesting ceremony, inasmuch as it was a surprise to most, took place at the finish. Mr. Hatfield, quietly undoing a box, came forward, asking Captain Keith to present a silver challenge cup, to be held twelve months, to Mr. Wilson, the winner. The kindly act of Mr. Hatfield and Mr. Wood in providing the cup, and the modest way it was done, deserve recording. It was just one of those happy inspirations which go a long way to break down, if still necessary, old jealousies. "It was a splendid ending to a pleasant season's bowling," adds Mr. Goode; and, "May it be a happy augury of the way the chemists intend to pull together in fateful November," is the wish of East London bowlers.



Mr. Wilson.

Dye-production Instruction.

The University of Leeds is making special efforts to meet the demands for fuller instruction in the manufacture of dyes. Professor Arthur G. Perkin is head of the department of colour-chemistry and dyeing, and Dr. J. B. Oesch, a well-known Swiss chemist, is taking charge of the laboratories of colour-chemistry. During the coming session special lectures are to be given by Mr. C. F. Cross, the cellulose expert; Mr. H. P. Hird (Hird, Chambers & Hammond, Huddersfield), a specialist in the distillation of coal tar; and Professor E. R. Watson, M.A., D.Sc., Dacca University, India, an authority on the chemistry of colouring-matters. A visit is to be paid to the University soon by specialists from London.—At a meeting of the Committee of the West Riding Section of the Society of Dyers and Colourists last week, Mr. W. Rhys-Davies suggested that the chemistry and dyeing department of Bradford Technical College should be either affiliated to or have its diploma course recognised by some University (Leeds or Manchester). He urged greater regard for diplomas, and stated that a candidate for the position of chemist in works of any importance who holds a University degree has the advantage every time over the candidate with a diploma. This indicates that manufacturers are changing. The British Dyes, Ltd., was mentioned as advertising for University men.

Contracts.

The following tenders have been accepted by Boards of Guardians:

Brecon.—Mr. F. L. Stanton, chemist and druggist, Brecon, for drugs.

Cranbrook.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, for medical appliances.

High Wycombe.—Holland, Barrett & Housden, for quinine.

Hunslet.—W. A. Wharram, Ltd., for drugs.

Mansfield.—Mr. A. H. Bell, Ph.C., for drugs; Gray & Selby, for surgical dressings.

Milton Regis.—Usher's Drug-stores, for chemists' goods, at 15*l.* 11*s.* 5*d.*

Newport (Mon.).—Albert Browne, Ltd., Leicester, for surgical dressings for six months.

Orsett.—Jordan Bros., Grays, for drugs.

Petworth.—Percival & Co., London, for soap, and Messrs. Otway (Petworth) for bovril.

Rochford.—Mr. R. H. Shields, chemist and druggist, for drugs.

Sheffield.—Smith & Carter, cream of tartar, 2*s.* lb.; Credlands, Ltd., boiled linseed oil 3*s.* 6*d.*, 200 gals. turpentine at 4*s.* 6*d.*; McDougall Bros., Ltd., 2 tons pine-powder at 22*s.* cwt.; Brunner, Mond & Co., Ltd., 12 tons soda at 77*s.* 9*d.*; J. Gilbert Jackson, Ltd., *x*-ray plates, etc.

Sudbury.—Huntley & Co., Oxo; McDougall Bros., Ltd., soap; Mr. A. B. Withers, drugs.

Swaffham.—McDougall Bros., Ltd., disinfectants; Mr. F. W. Cooper, chemist and druggist, medical appliances.

Wakefield.—Mr. W. Pollard, chemist and druggist, drugs and surgical appliances; E. P. Shaw & Co., Ltd., soda-water.

Yarmouth.—F. R. Delf & Sons, Oxo, Benger's food, borax-powder, and saltpetre.

War Office Contracts.

The following were among those contracted during August: *Chloride of Lime.*—United Alkali Co., Ltd. *Dental Outfits.*—C. Ash, Sons & Co., Ltd.; Dental Manufacturing Co., Ltd. *Disinfectants.*—Killgerm Co., Ltd.; Newton, Chambers & Co., Ltd. *Disinfectants* (term contracts).—T. Horrocks & Sons, Ltd.; Killgerm Co., Ltd.; Osmond & Son, Ltd. *Flycatchers.*—F. W. Hampshire & Co., Ltd.; Hughes, Hill & Co. *Medicines.*—Allen & Hanburys, Ltd.; J. Bell & Croyden, Ltd.; Boot's Pure Drug Co., Ltd.; The British Drug Houses, Ltd.; Brooke, Parker & Co., Ltd.; Burgoyne, Burbidges & Co.; W. B. Cartwright, Ltd.; Evans Sons Lescher & Webb, Ltd.; Hough, Hoseason & Co.; Howards & Sons, Ltd.; May & Baker, Ltd.; Parke, Davis & Co.; Standard Tablet and Pill Co., Ltd. *Medicines* (term contract).—Howards & Sons, Ltd. *Methylated Spirit.*—Bellingham & Co., Ltd.; B. Biggs & Co., Ltd.; S. Bowley & Son; Bristol Distilling Co., Ltd.; J. Burrough, Ltd.; May & Baker, Ltd.; Preston's Liverpool Distillery Co., Ltd.; Sutton, Carden & Co.; J. & J. Vickers & Co., Ltd.; Waters & Co., Ltd. *Methylated Spirit* (term contract).—H. Sharp & Son, Ltd. *Soap.*—S. Earle & Co., Ltd.; Hull Oil Manufacturing Co., Ltd.; Isdale & McCallum, Ltd.; Lever Bros., Ltd.; C. Thomas & Bros., Ltd.; J. L. Thomas & Co., Ltd.; J. Watson & Sons, Ltd. *Soap* (term contracts).—S. Earle & Co., Ltd.; Ferguson, Shaw & Sons. *Surgical Materials.*—Allen & Hanburys, Ltd.; Arnold & Sons; Burgoyne, Burbidges & Co., Ltd.; Coxeter & Son; F. H. Critchley; A. E. Evans; W. G. Fuller; J. Glover & Sons; Implitico, Ltd.; Longmates, Ltd. *Tetanus Antitoxin.*—Burroughs Wellcome & Co.

Liverpool.

Mr. John H. Robinson, of the Exchange Pharmacy, has been spending a brief holiday near Windermere, his native place.

Mr. William H. Saunders (Ayrton, Saunders & Co., Ltd.) has received hundreds of letters of condolence on the death of his only son, Lieutenant Gilbert Saunders, killed in action as reported in the *C. & D.*

Owing to the stormy and cold weather, the winter-season trade has set in a month earlier than usual. The military hospital demand remains a feature, and the very high percentage of recoveries from wounds characterises the medical reports.

Ships' hygiene, a subject in which Liverpool has played the pioneer both at the local University and in the manufacturing trade, has been taken up by all the large shipping companies, and the demand for "Solution D." has become world wide.

A final reply to the invitation to accept nomination for the Lord Mayoralty of Liverpool cannot, for business reasons, be given for a few days yet, but early next week an announcement gratifying to readers of the *C. & D.* may be anticipated with considerable assurance.

"Chemistry and Industrial Progress" is the title of four popular scientific lectures to which the Y.M.C.A. invite members and friends at the Mount Pleasant Hall. The lecturer (Dr. W. C. McC. Lewis, M.A., Professor of Physical Chemistry in the University of Liverpool) will deal with the importance, from a national standpoint, of research in chemical-industry, further industrial applications of chemical principle, prevention of adulteration of foodstuffs, and fuel economy.

The head office, warehouse, and laboratory staffs of Evans Sons Lescher & Webb, Ltd., are subscribing to place in the office a tablet to the memory of Lieutenant E. H. S. Evans, who was killed in action on July 22. The firm have placed brass and framed tablets in each department to the memory of the men from those departments. The latest reports from the Front show that Privates A. Roberts (laboratory) and R. J. Voce (general) are prisoners of war. Sergeant J. Osborne (patents-room), reported missing, is now reported killed. Signaller F. Cooksley has been awarded the Military Medal for conspicuous bravery. He resided at 50 Whitefield Road, Everton.

Manchester.

Captain W. G. Shand, who was a well-known doctor in practice at Salford, has just died of wounds. He was a panel practitioner for Manchester and Salford.

Private Whittingham, the son of Mr. Whittingham, of the Great Western Street pharmacy, Moss Side, Manchester, was among the recruits who left this week for the training camp.

A chemist who used to be in business in Manchester, and who has failed to report himself under the Military Service Act, cannot be found. Several chemists who knew him have been asked by the police for information regarding his whereabouts.

In connection with the Insurance inquiry, sittings of the Commission of Investigation, appointed by the Faculty of Insurance, were held in the Town Hall Manchester, on September 19 and 20. The only member of the Commission connected with pharmacy is Sir Jesse Boot.

The cold and unsettled weather of the last few days has caused a fillip to business. Many have been the demands for phenol-mixture, quinine preparations, malt and oil, and winter remedies. Hot-water bottles are largely to the fore in many pharmacies, considering the time of year.

Application is being made by A. Smith, Excelsior Works, Clayton, Manchester, for licences to use patents 11530/13, 11615/13, 12777/13, 12661/14, relating to the vulcanisation of caoutchouc, belonging to the Farbenfabriken vormals F. Bayer & Co., or vested in the custodian.

The decisions taken by various bodies representing the trade and industry of Manchester, regarding the question of a general holiday on the last two days of this month, suggest that the project, except in so far as it affects the munition-workers, is likely to fall through. The banks, the Royal Exchange, and the retail traders, in deciding to proceed as usual with their ordinary business, have made it impossible for a general closing-down to take place in the city. Chemists have not yet decided what they will do in the matter.

Sheffield.

The pharmacy classes of last session do not announce any prize-winners, as the classes were greatly reduced by the male students joining the Army.

Chemists will do well to keep their business eye on the King Edward's Hospital, as the Corporation has decided to spend 8,000*l.* on the fittings, which include *x*-ray apparatus.

The Lord Mayor has just issued a notice asking tradespeople to close for two days, Saturday and Monday, during the four days given to munition-workers, from September 28. It is doubtful if this will be agreed to generally.

The last list of considered applicants for exemption from military service has been agreed to by the Military Representative and accepted *en bloc* by the Tribunal. Certificates of exemption should have been received within the last few days by those who have been notified by the Pharmaceutical Secretary that they had been considered indispensable.

George Taylor, motor-driver to C. R. Horner & Co., manufacturing chemists, Abbeydale Road, Sheffield, while delivering goods in the busy thoroughfare Union Street, Barnsley, had a serious accident, in which he showed the greatest pluck and coolness. The brakes failed to act on the steep incline, and the car rushed at great speed down the hill. While holding with one hand his young brother from jumping off, Taylor shouted and cleared the people

from the street. At the bottom of the hill the motor dashed into a tramcar on Sheffield Road, the van being completely wrecked. Both occupants were severely injured, but are making favourable progress in Beckett's Hospital.

Miscellaneous.

BOOTS' PREMISES at Kingston-on-Thames were broken into on Sunday night and goods to the value of 100*l.* stolen

POOR-LAW DISPENSER.—The West Ham Guardians are advertising for a dispenser and storekeeper at 2*l.* a week outdoors!

COCAINE FOR DENTISTS.—The Home Secretary has decided not to grant to dental depôts permits to purchase cocaine and its preparations.

TOO MUCH LIGHT.—Mr. Robert J. Shepherd, Ph.C., 59 Northgate Street, Gloucester, has been fined 1*l.*, including costs, for having too much light in his shop.

SUTCLIFFE'S OPHTHALMOMETER.—An application for the restoration of patent 6594/07, "Improvements in Ophthalmometers," which lapsed on March 19, 1915, owing to non-payment of fees, has been made by George Culver, Ltd.

OPIUM-TRAFFIC.—At Woolwich Police Court on September 14, Toaro Yamashita (42), a Japanese fireman on the s.s. *Katori Maru*, was remanded in custody for attempting to export 16 lb. of opium. On September 20 he was sentenced to six months' hard labour.

WHILE TWO EMPLOYÉS of John Tye & Son, manufacturing chemists, Caledonian Road, London, N., were amusing themselves on Friday, September 15, one of them spilt some tincture of iodine on a stove, when it flashed up and burned one (a girl of sixteen) rather severely. She was treated in the Royal Free Hospital.

MR. FREDERICK W. WILLIS, assistant to Mr. D. Davison, Ph.C., Cromer, while riding a motor-cycle on Friday, September 15, collided with a motor-car and was flung from his machine, which was badly wrecked. He was taken to Cromer Cottage Hospital, where it was found that his right thigh was fractured and two bones in the same leg were also broken.

MR. J. A. DEWHIRST, F.I.C., F.C.S., Ph.C., borough analyst for Halifax, in his annual report, issued this week, states that the percentage of adulteration is higher this year, and it is due to three articles only—namely, milk, baking-powder and olive oil. One sample of the last-named was badly adulterated, and another was of most suspicious character. There is a shortage in supply of the genuine article, and nut oil is used as an adulterant, because not readily detected.

POISONINGS.—The following cases of poisoning have been reported during the week: A Bristol woman named Allen committed suicide with carbolic-acid, and an Uxbridge domestic servant named Bruce used a creosote disinfectant for the same purpose. At St. Pancras, London, Coroner's Court a verdict of death by misadventure was returned in the case of an actress named Koester, whose death was due to an overdose of veronal (see *C. & D.*, September 9, p. 36). A Whepstead farmer named Wright poisoned himself with strychnine while temporarily insane. Mr W. L. Sutton, the public analyst, found strychnine in the body, which was probably taken in the form of rat-poison.

UNEMPLOYMENT INSURANCE.—Under the National Insurance (Unemployment) Acts, 1911 to 1916, the following decisions have been given by the Umpire: *Contributions are payable in respect of* workmen employed by alkali-manufacturers as samplers, taking samples of chemicals out of packages for testing; branders, branding kegs and bags; crane-drivers; workmen repairing bags for packing chemicals; girl messengers over sixteen years of age if employed about the works. [1791X.] Workmen engaged wholly or mainly in making glass articles for medical or surgical use, such as graduated glass bottles and laboratory apparatus, for use in war, or in experimental glass-blowing in connection therewith. [1824X.]

ROSIN OIL FOR SWEDEN.—At the Mansion House Police Court on September 22, Edgar George Blohm, a naturalised British subject, sole partner in the firm of Henry Keck & Co., export merchants, Fenchurch Street, London, E.C., was fined 100*l.*, with ten guineas costs, for an infringement of the Customs (War Powers) Act, 1915. In August 1915 he was granted a licence to export eight barrels of rosin oil to Malmö, in Sweden, on condition that the goods were shipped to Gothenburg and thence sent by inland transit to Malmö. It was afterwards ascertained that the goods were sent by sea from Gothenburg to Malmö. No mention of Malmö was made on the bill of lading, and the consignees might, if they had liked, have claimed the goods at Gothenburg and done what they pleased with them.

EARLY CLOSING.—The Luton Tradesmen's Association has asked the Town Council to make a new closing order for the shops of chemists in certain streets. The Watch Committee of the Council considers that a *prima-facie* case has been made out for the suggested order, and recommends that the Town Clerk give notice of the Council's intention to make an order whereby the shops referred to shall close at 7 P.M. on Mondays, Tuesdays, Thursdays, and Fridays, at 1 P.M. on Wednesdays, and 10.30 P.M. on Saturdays.—At a meeting at Bury St. Edmunds, on September 18, it was resolved to close at 6 P.M. on Monday, Tuesday, and Wednesday, at 1 P.M. on Thursday, at 7 P.M. on Friday, and at 8 P.M. on Saturday.—Halesworth has decided to close daily from 1.15 to 2.15 P.M., except on Thursdays, and each evening at 6.30, except on Saturdays, when the closing-hour will be 8 P.M.—At Newmarket, a vote resulted in the selection of seven-o'clock closing except on Saturdays, when the shops will close at 8 P.M.—Boston Town Council, on September 5, issued a draft order for chemists and druggists to close at 7 P.M. on Monday, Tuesday, Wednesday, and Friday; 1 P.M. on Thursday; and 9 P.M. on Saturday.—In various parts throughout the country earlier closing is being considered, and in London the Early-closing Association is moving in the matter.

It is stated that the Cabinet has been considering a measure for the compulsory earlier closing of shops, and an official statement is expected immediately. The London correspondent of the "Manchester Guardian" states that it has decided to require shopkeepers to put up their shutters at the following times:

7 P.M.—Monday, Tuesday, Wednesday.
8 P.M.—Thursday, Friday.
9 P.M.—Saturday.

The new Order will come into force on Monday, October 2.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

At Dundee last week, Sheriff Neish fined a local grocer 2*l.*, under the Sale of Food and Drugs Act, 1875, Section 6, for selling cream of tartar that the public analyst certified to contain 90 per cent. of hydrated phosphate of lime and 10 per cent. of cream of tartar.

One of the Aberdeen physicians whom the Insurance Committee finds to have prescribed excessively, and is surcharging him, has sent a letter to the Clerk which is published in a local paper. It occupies a column. He says the charge is disgusting and wholly false.

"When shall we three meet again?"

The "Dumfries and Galloway Standard" has reported a meeting in Dumfries on Thursday, September 14, of three old friends—Mr. William Allan, Ph.C., Mr. William Reid, accountant, and Mr. James MacKenzie, chemist and druggist (Edinburgh)—after an interval of nearly six decades. This is such a rare event that we are glad of the opportunity of getting from Mr. MacKenzie the following notes about the matter:

In September 1851 I landed (from Kinross-shire) in Dumfries to begin my apprenticeship, and there I met Mr. William Allan, who soon after became an apprentice with Mr. R. B. Carruthers, chemist. We two lads became good friends and have continued so till this time. About 1853 we became acquainted with another young man, Mr. William Reid, son of a banker there, and we continued to be most friendly till 1855, when we were obliged to separate. Mr. Reid was leaving for America, I was on the move to become junior assistant to Mr. John Hill, West Street, Sheffield; after three months I was made the senior, though only nineteen years of age. I continued there for three years, when I entered the employment of Messrs. Duncan, Flockhart & Co., 52 North Bridge, Edinburgh, where I remained for five years. All this time we kept up our friendship. When parting with my two friends in 1855 I remarked, "When shall we three meet again?" Time passed, but after fifty-seven years we again met in Dumfries, all well, fresh, and hearty, and all about the same age. We hoped for another meeting some day, and last Thursday, the 14th inst., we met on the same spot where we had parted sixty-one years ago, and again each one able to report "All well," spending a very happy time together, thankful for the mercies we had enjoyed and the comfortable circumstances in which we were enabled to meet.

Mr. Allen was for many years President of the Dumfriesshire Chemists' Association, and is one of the best-known pharmacists in the West of Scotland. Mr. MacKenzie was a member of the Council of the Chemists and Druggists' Trade Association, also of the Council of the Pharmaceutical Society in Edinburgh, and he still attends the annual meetings of the Society in London, being mentally as keen as ever he was, and also physically fit.

Glasgow and the West.

Industrious students for the October examinations are now busy in the Botanic Gardens. There are many examples of fruits, and the various forms of placentation are being studied.

A meeting of shopkeepers representing various trades was held in Glasgow last week, when arrangements were made for seven-o'clock closing and nine o'clock on Saturdays owing to the new lighting restrictions. Chemists did not take part.

The weather remains bright, but there is a decided "nip" in the air, consequently wide-awake chemists are introducing into their window and counter shows the forerunners of winter, such as cough-mixtures, cod-liver-oil emulsion, and malt extract.

The Glasgow autumn holiday has been cancelled by the Admiralty so far as shipyards and munition-works are concerned, but the Corporation have decided to recognise the usual holiday. Wholesale houses will thus be closed during the week-end, and retail chemists will close on September 25.

Since its affiliation to the British Red Cross in October 1915, the Glasgow Sphagnum Moss Depôt has despatched over 100,000 moss dressings to hospitals and casualty-clearing stations. Freemason lodges have been very zealous in procuring sphagnum moss, as well as many Red Cross work parties. An appeal is made for still larger supplies, as the demand for dressings is increasing.

An alarming outbreak of fire occurred in the ground department of the warehouse of Francis Spite & Co., St. Enoch Square, Glasgow, on Monday afternoon, September 18. A drug-department and an office were practically destroyed, and the upper floor was damaged by smoke. The loss is estimated at 2,000*l*. "The Herald" says the firemen were just sitting down to tea when they received the call, and suggests that they might have said, "The time is out of joint—Oh cursed Spite!"

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

General.

MR. W. AITKEN, who resigned the presidency of the Cape Pharmaceutical Society on account of ill-health, is still at Harrismith, and the latest reports are that his health has very much improved. He will remain at Harrismith until the summer is well advanced before returning to Cape Town.

CHEMISTS PROSECUTED.—At Durban on August 23, judgment was delivered in a case in which Mr. J. Tremoulet, chemist and druggist, and his assistant were charged with acting as physicians by prescribing for two native women. The Chief Magistrate said there was no evidence that accused pretended to be medical men. As the case turned upon the difference between the functions of a doctor and a chemist, he was not prepared, without professional evidence, to define what are the duties of the respective professions. Such evidence had not been tendered by the prosecution. He therefore held that the case for the Crown must fail, and accused were therefore acquitted.

BUSINESS IN CAPE TOWN is good, reports our correspondent. The prices of drugs and sundries is still upwards. Petersen, Ltd., have issued a new price-list, which gives a good idea of the general advance in prices of most lines. The heavy advance in freight has a lot to do with this, particularly in the heavy and bulky class of goods. Earthenware goods and glass bottles are an enormous price, and it is very evident that, although the chemist advances his prices, he is not making near the profit he did when prices were lower. It is to be hoped the limit has been reached, for even if the war ends fairly soon it will be some while before reductions can take place.

Cape Province Pharmaceutical Society.

A GENERAL MEETING of the Pharmaceutical Society of the Cape Province was held in the Society's rooms in Darling Street, Cape Town, on August 17. There was a very fair attendance. The feature of the evening was a lecture by Mr. E. Herbert Bysshe, of the International Correspondence Schools, on "How a chemist can increase his business by productive advertising, scientific salesmanship, and attractive window-dressing." He said the first outstanding principle of business-building is an understanding of human nature. You must be prepared, so far as possible, to consider every customer on the basis of his or her own nature. Careful observation will enable you to detect the different types. Some prefer their purchases handed over smartly with as little discussion as possible, while others like a few chatty remarks. Always give the impression that the customer you are talking to is one that you value highly. It is a good plan to ascertain the name and address of each so that you can greet them by name on future visits. This is a harmless form of flattery which appeals to nearly everyone, and by offering to deliver even small parcels you can easily obtain the data. Always take a keen personal interest in the ailments of any customers, and in no way suggest that you think their troubles less important than they imagine, but be optimistic and talk of the cures rather than the diseases. Another good idea is to ask your customers their opinion of anything they may have tried on your advice. It pleases them to feel that you value their opinion and you may actually obtain useful suggestions. It is not wise to openly disagree with the opinions of customers. It is far better to appear to agree and then suggest your own view as an alternative, giving sound reasons in support. Suppose, for instance, a customer said "I don't believe in taking medicines." It would be tactless to flatly contradict, but you might reply "Nor do I! I take very little myself, but I am troubled with a sluggish liver and I find that this or that mixture gives me instant relief."

French News.

(From the "C. & D." Paris Correspondent.)

SALE OF STUPEFYING DRUGS.—The first conviction under the new Poisonous Drugs Act occurred last week in Paris, when Robert Coudriet was sentenced to a year's imprisonment and a 40*l*. fine for selling cocaine to the frailer sex at Montmartre. He was well known to and long suspected by the police, but the new Act was necessary to make the "punishment fit the crime." The picturesque incident of the trial was the evidence given that Coudriet, who has a wooden leg, used this apparently undesirable appendage as a storehouse for his illicit goods.

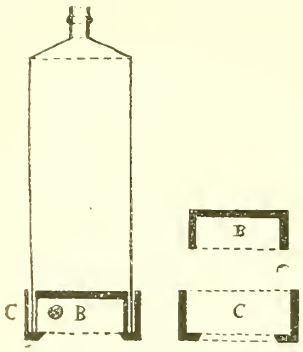
A CENTENARY.—August 21 last was the centenary of the birth of Charles Gerhardt, the famous French chemist, born at Strasbourg in 1816. At a moment when it seems at last possible that Alsace may once more become a French province, such an event could hardly pass unnoticed. Wartime is an unpropitious occasion for celebrations and festivities, but Professor Tiffeneau, the Parisian hospital pharmacist, is publishing commemorative articles on the subject. Gerhardt was professor of chemistry at Montpellier in 1844, and returned to Strasbourg in 1855, just a year before his death, to fill a similar post. He founded and edited the "Comptes Rendus Mensuels de Chimie."

THE DYE-INDUSTRY.—A group of French manufacturing industries interested in the uses of aniline dyes has been studying the question of forming a National Company which will undertake the manufacture of chemical products to compete with and replace those hitherto made in Germany. The articles of the National Company stipulate that the director must be of French parentage, and the appointments of the managing director and board of directors must be approved by the War Minister. This agreement between the National Company and the French Government has been completed by a commercial understanding between similar British and Italian concerns. This understanding will be carried out by the Société Interalliée des Matières Colorantes, which will be composed of representatives of all three companies.

German News.

SCARCITY OF RUBBER TEATS.—According to a decree of the German Diet of August 3, all rubber teats imported into Germany from neutral countries must be consigned to the Handelsgesellschaft Deutscher Apotheker in Berlin. For home manufacture a quantity of rubber is given free upon condition that the teats will be furnished to the Hageda. The teats may only be sold by pharmacists when a certificate of birth is shown at the time of purchase, when two teats may be obtained. On the second purchase only one teat may be sold, and that on condition that the worn-out ones are returned. They are not to be sold for use by children over twelve months old. The quantity of rubber granted by the War Department for teat-making in Germany is sufficient for a daily production of 6,000 to 7,000 teats.

GLASS TUBES are now made use of in Germany to replace collapsible tin tubes. The "flaschentube" here sketched is made in Dresden. The tube is filled in the same way as the tin tubes, after the movable bottom (B) and the safety bottom (C) have been removed. After the tube is filled both are put on again. The object of C is to prevent B being pressed away by expansion of the contents. Pressure of B with the finger suffices to push the contents out at the top. One object of the safety bottom (C) is to prevent the finger being cut by the sharp edges of the glass. This is the first practical idea of the kind that has materialised in Germany.



OIL SUBSTITUTES IN MEDICINES.—The Minister of the Prussian Home Department has issued a decree allowing the use of substitutes for edible fats and fixed oils in pharmacies for the preparation of medicines. Several ointments, liniments, etc., cannot be dispensed exactly according to G.P. V., and co-operation between physicians and pharmacists is recommended by the Minister. In place of lard, which may no longer be used, a mixture of 15 parts of wool-fat, 28 parts of ceresin, and 57 parts of vaseline, which may be mixed if necessary with 30 per cent. of water, is recommended. In the place of lard and earthnut oil, oleinic acid must be used for the preparation of lead-plaster; oleinic acid may also be used for making soft soap in place of linseed oil.

Colonial and Foreign News.

OPIUM-SMUGGLING IN CHINA.—On account of the Chinese Government's restrictions on the importation of opium into China, the price of the drug is very high, and the recent seizures in Shanghai of twenty cases, containing about 7,000 lb., are valued at well over 1,000,000 taels, or 143,000*l*. Seven Chinese members of Parliament are said to be implicated in this latest seizure, three of whom have been arrested and are in custody.

BOGUS SALVARSAN IN SWEDEN.—There have been numerous dealings in bogus salvarsan in Stockholm, and a number of arrests have taken place. The police have confiscated a parcel of genuine neosalvarsan, amounting to over 900 grams, which was found in the possession of some German merchants in Stockholm. Salvarsan, like many drugs, is forbidden to be kept by other than licensed druggists, and is also barred from export.

MEDICAMENTS FOR HOLLAND.—Some time ago the Dutch Minister for Foreign Affairs tried to get medicines imported from Germany into Holland at prices such as were paid in Germany. These endeavours appear to have failed. The Dutch Ambassador in Berlin has informed the Minister that export prices have been advanced by the German manufacturers by permission of and partly on advice of the Government, on account of the high cost of production and also with a view to raising the German equivalent.

FÉDÉRATION INTERNATIONALE PHARMACEUTIQUE.—Professor Dr. L. van Itallie and Mr. J. J. Hofman, President and Secretary of this organisation, recall the fact, in the "Pharmaceutisch Weekblad," that three years ago pharmacists of all countries met in The Hague, but the work of the Fédération has come to a standstill, except that the Bureau continues the organisation of an international library of pharmaceutical periodicals and goes on collecting reports of the ten preceding Congresses. The work of the Dutch Anti-War League is referred to, and the hope is expressed that co-operation of all pharmacists in this technical work will be continued.

Irish Assistants.—A meeting of the Provisional Committee of the Irish Chemists' Assistants' Association was held in Dublin on September 15. Fourteen members were present. It was arranged to submit the draft rules to a general meeting at Moran's Hotel, Talbot Street, on September 20. The annual meeting will be held each year in September, so that resolutions that are adopted can, if necessary, be submitted to the annual meeting of the Pharmaceutical Society in October. The Association is to include ordinary members, honorary members, and apprentices. Women are eligible for membership.

Legal Reports.

A Phosferine Case.—In the Vacation Court, London, before Mr. Justice Atkin, on September 20, a motion was heard on behalf of the plaintiffs, Ashton & Parsons, Ltd., against Mr. Edmund Dart, trading as the Dart Remedies Co., and formerly as Professor Edmunds, at Mill Street, Pontypridd, for leave to issue a writ of attachment for alleged breach of an injunction granted by Mr. Justice Sargant in the Chancery Division on March 9, 1915. Mr. Kerly, K.C., said that this was a "passing-off" action, and the defendant was under an order restraining him from passing off matter as "Phosferine" other than the plaintiffs' special article. The defendant's present activities were at Pontypridd, and counsel read affidavits by which it was suggested that in the market-place there the defendant sold stuff in a bottle which he passed off as phosferine, and that he offered to give away a bottle of phosferine to people who bought a pamphlet for a shilling. The defendant appeared in person, and denied absolutely that he committed the acts alleged, and the case was adjourned for the defendant to have an opportunity of putting his denials on affidavit. The defendant, in the course of his evidence, produced a petition that he said was signed by tradesmen at Pontypridd, but his Lordship said he could not deal with this. The case was adjourned to the next legal sittings.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

BARKING CHEMICALS CO., LTD. (P.C.).—Capital 250,000*l*. The directors are the Earl of Kintore, Dr. O. Silberrad, and C. H. Burr. Remuneration same as in the Manchester Coal-tar Products Co., Ltd. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, E.C.

GEORGE NELSON, DALE & CO., LTD. (P.C.).—Capital 150,000*l*. Objects: To take over the business of George Nelson, Dale & Co., Ltd., and to carry on the business of manufacturers and producers of and dealers in gelatin, isinglass, meat extract, etc. The subscribers are Sir E. Montague Nelson, K.C.M.G., and H. Nelson. Solicitors: Paines & Co., 14 St. Helens Place, E.C.

BLANC FIXE MANUFACTURERS, LTD. (P.C.).—Capital 5,000*l*. Objects: Takes power also to trade as agents for and dealers in "Blanc Fixe," and druggists, drysalters, and dealers in medicinal and chemical preparations and articles. The first directors are H. E. Alcock, J. Barton, R. H. Durler, A. M. Martin, E. Blandintye, and T. Keens (sole governing director). Solicitors: Neve, Beck & Kirby, 21 Lime Street, E.C.

ABBEY CHEMICAL CO., LTD. (P.C.).—Capital 11,000*l*. Objects: To take over the business of manufacturing chemists carried on by T. Needham, F. H. Rogers, F. B. Dehn, and C. S. Gilman; to enter into agreements (1) with the said vendors and (2) with G. Martin for his engagement as technical manager and consulting chemist for seven years from date of incorporation, with a salary of not less than 400*l*., and the allotment to him of 4,000 deferred shares. The first directors are T. Needham (24 Clarendon Court, W.), F. H. Rogers, F. B. Dehn, and C. S. Gilman.

MANCHESTER COAL-TAR PRODUCTS CO., LTD. (P.C.).—Capital 76,000*l*. Objects: To carry on the business of dye-makers, chemists, drysalters, etc., and to adopt an agreement with C. H. Burr. The first directors are the Earl of Kintore, C. H. Burr, A. Oddenino, Dr. O. Silberrad, and F. M. Crisp. Remuneration 200*l*. each per annum, chairman 100*l*. extra, and 10 per cent. of the net profits remaining after 6 per cent. dividend is paid, divisible; such additional remuneration shall be paid free of income-tax. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, E.C.

Bankruptcy Report.

Re William Robert Scott, 139 Denton Street, Carlisle, Chemist and Druggist.—The Official Receiver reports that the gross liabilities amount to 329*l*., and the deficit is 165*l*. The failure is due to falling-off in business, especially since the commencement of the war, and for the past two years the debtor had been borrowing money from moneylenders, to whom he appears to owe 182*l*.

Birth.

CROSBIE.—At 109 Elswick Road, Newcastle-on-Tyne, on September 17, the wife of Andrew Crosbie, chemist and druggist, of a daughter.

Marriage.

GIBSON—CAMPBELL.—At the Parish Church Hall, Johnstone, on September 19, William B. Gibson, chemist and druggist, to Jeannie, eldest daughter of the late John Campbell, Johnstone.

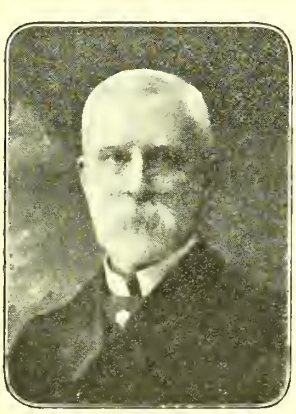
Deaths.

AUSTIN.—Mr. Henry William Austin, chemist and druggist, manager of the branch pharmacy of Boots, Ltd., St. Ann's Well Road, Nottingham, died last week. He passed the Minor examination in April 1912. The funeral took place at the Nottingham General Cemetery on Monday, September 18. Many floral tributes of respect were sent, among others by Sir Jesse and Lady Boot and by the Nottingham branch managers.

BEATTIE.—At Dundee, suddenly, on September 15, Mr. James Brown Beattie, chemist and druggist, aged forty-eight. Mr. Beattie had not been in good health for some time. About six years since he succeeded to the business of Mr. A. MacHardy, at 4 Wellgate, Dundee.

BLADES.—At Leek, on September 13, Mr. Josiah Brunt Blades, chemist and druggist, aged sixty-five. Mr. Blades qualified in January 1874, and had carried on business at Stanley Street, Leek, for many years latterly in partnership with his son, Mr. H. A. Blades, as Blades & Son. Mr. Blades was Vice-Chairman of the North Staffordshire Chemists' Association, and a lay reader in the Church of England. Mr. Blades was the son of a pharmacist, Mr. Christopher Blades, who established the Leek business before 1830. The family (a very old one) had for generations been of service to the community, and in his early years Mr. Blades and his brother, the late Mr. Sherriff Blades, organised concert-parties, which were a feature of the Moorlands.

BRUNTON.—At 1 De Walden Court, 6 New Cavendish Street, London, W., on September 18, Sir Thomas Lauder Brunton, Bart., M.D., LL.D., F.R.S., aged seventy-two. This distinguished physician was the son of Mr. James Brunton, Hiltonshill, Roxburghshire, and was born there on March 14, 1844. He studied medicine and science in Edinburgh University, and in 1866 graduated there as M.B., C.M., taking his B.Sc. degree in the following year and the M.D. in 1868. He also studied in Amsterdam, Berlin, Leipzig, and Vienna, and was one of the most distinguished medical graduates of the Edinburgh University, where his researches were on subjects which revolutionised medical treatment. Coming to London, he in 1870 passed the examination as a member of the Royal College of Physicians, and subsequently he was appointed lecturer in pharmacology and therapeutics at St. Bartholomew's Hospital, of which he became a physician. He was one of the leading therapeutists of the day, irrespective of country, and the author of numerous works on that subject and on disorders of the digestion. He was knighted in 1900, and received a baronetcy in 1908. He was elected an honorary member of the Pharmaceutical Society of Great Britain in 1887. He is succeeded in the baronetcy by his eldest son, James Stopford Lauder Brunton, who is an officer in the Canadian Forces. His second son, E. H. Pollock Brunton, B.A. Cantab., M.R.C.S., L.R.C.P., was a lieutenant in the R.A.M.C., and was killed in action in France on October 8, 1915. Sir Lauder also leaves two daughters, one of whom is married to Professor Augustine Henry, of Dublin, whose work on Chinese botany is well known to our readers.



SIR T. L. BRUNTON, BART.

CURNOW.—At 3 Victoria Terrace, Sidcup, Mr. William Albert Curnow, chemist and druggist, Tranquil Vale, Blackheath, London, S.E.

FETHERSTON.—At 58 Summerhill, Dublin, on September 13, Mr. George Grahame Fetherston, Ph.C., aged forty-seven. The funeral took place on the following Saturday from St. Thomas's Church, of which deceased was a warden.

GREIG.—At 19 Ardgowan Road, Hither Green, S.W., on September 17, Mr. James Greig, aged sixty-three. Mr. Greig was a buyer and manager with Barclay & Sons, Ltd., 95 Farringdon Street, London, E.C., and was well known to many in the drug-trade. He was educated at the Caledonian Asylum, and as one of the old boys of that institution he was proud of his connection with it. He spent practically all his business life at Barclay's, and his death occurred after a few days' illness.

PAINE.—At 15 Malvern Road, Weston-super-Mare, on September 2, Mr. Charles Paine, chemist and druggist, aged fifty-seven. Ill-health compelled him to relinquish business about a year ago.

WALLACE.—At 18 Rubislaw Den North, Aberdeen, on September 13, Mr. William Wallace, chemist and druggist, 81 King Street, aged seventy-six. Mr. Wallace was a native of Belhelvie, and served his apprenticeship in Aberdeen, afterwards setting up in business for himself, and was registered as being in business before August 1, 1868. He retired some time ago, and is survived by two sons and three daughters.

Died on Service.

BRITTON.—Mrs. Britton, Station Road, Pontyrhyl, has been officially notified that her husband, Private Albert Sherwood Britton, Royal Warwickshire Regiment, has been killed in action. He was a Student Associate of the Pharmaceutical Society.

HOURSTON.—Killed in action on September 4, Sergeant Alexander Voy Hourston, of the Royal Engineers, aged twenty-nine. Sergeant Hourston served his apprenticeship with the late Dunean Stewart, chemist and druggist, Kirkwall. He afterwards joined the staff of Harkness, Beaumont & Co., wholesale druggists, Edinburgh, and in 1906 became their town traveller. In September 1914 he enlisted in one of the new battalions of the Royal Scots, and some months later was transferred, with the rank of corporal, to the Royal Engineers. He met his death while in charge of a section, being struck by a piece of shrapnel while encouraging his men, and never regained consciousness.

MORRISON.—Killed on September 5, Private Andrew Morrison, of the Black Watch, sixth son of the late Forbes Morrison, chemist, New Cumnock, aged twenty.

RENNIE.—Killed in action, Private Robert Rennie, of the Argyll and Sutherland Highlanders, who was employed by Pinkerton, Gibson & Co., Edinburgh.

ROWED.—The death is reported of Lieutenant C. H. Rowed, of the South Lancashire Regiment, son of Mr. Charles Rowed, a principal on the staff of Thomas Beecham, St. Helens, and a contributor to the *C. & D.* on antiquarian subjects. A portrait of the lieutenant appeared in the "St. Helens Newspaper and Advertiser" on September 19, and a captain of the regiment, writing in regard to his old comrade, says: "I was with Rowed all afternoon and evening the day before he was killed, in a strong point we had dug the night before, 300 yards in advance of the front line. It was in directing and encouraging his men to connect this point and others up under continuous sniping on a bright moonlight night that he got killed. He was true metal all through."

Wills.

THE LATE CHARLES JAMES ARBLASTER, chemist and druggist and soda-water manufacturer, Birmingham, left estate of the gross value of 507*l.*, with net personalty 482*l.*

MR. FREDERICK DICKINSON, chemist and druggist, Stamford, Lines, who died on July 1, left estate valued at 2,637*l.* 7*s.* 7*d.* gross, with net personalty 1,441*l.* 3*s.* 1*d.*

MR. WILLIAM EDWARD SMITHIES, chemist and druggist, Elland, Yorks, who died on July 2, left estate of the gross value of 2,964*l.* 5*s.* 3*d.*, with net personalty 2,739*l.* 13*s.* 6*d.*

MR. EDWARD MOUNSTEVEN WRIGHT, Beckenham, Kent, of Aimée Lloyd & Co., 23 Panton Street, Leicester Square, W.C., and of the firm of Wright & Holdsworth, soap-manufacturers, who died July 26, aged eighty-one, left estate of the gross value of 32,013*l.* 2*s.* 3*d.*, of which 31,714*l.* 7*s.* 7*d.* is net personalty. His business interests are left upon trust for his son E. M. Wright.

The U.S.P., IX.

A Criticism of its Chemistry.

By Ernest J. Parry, B.Sc., F.I.C.

It is difficult adequately to criticise the chemistry or chemical tests of any Pharmacopœia unless one is in a position to know what its scope and the intentions of the compilers really are. Such scope and intentions must be sought by internal evidence, but one broad fact is obvious—namely, that the work should be of the maximum utility possible as a guide to those who are absolutely bound to use it.

With the increased activity of legislation in the direction of drug purity, it is obvious that the Pharmacopœia in this country has long passed beyond the stage of a guide to the pharmacist; and this is still more true of the United States Pharmacopœia, which is incorporated as a standard under the Pure Foods Act of 1906. This work, therefore, has been placed upon a pedestal which has been refused to the British Pharmacopœia, and which will probably be refused until a great difference in its method of preparation takes place.

The United States Pharmacopœia, then, must be regarded as a work of such high authority that it should justify our expectations that it is the last word on efficiency and accuracy on all chemical matters which it purports to control. We have to remember that the reputations of firms and individuals depend on their products satisfying what is, in the United States, the "letter of the law." A national Pharmacopœia, published so lately as last month, erected into a legal standard, will not be easily rebutted as evidence in an American law court. Again, having passed definitely into a standard by which the professional analysts are bound, one may well ask, "How far does it bear the impress of the professional analysts' assistance in its preparation?"

At the outset, one may say that if this work be divorced from the high ideals of a Pharmacopœia above indicated, its chemical tests and statements are, on the whole, sound, useful, and accurate. But judged from the more particular point of view, I do not think the United States Pharmacopœia satisfies the expectations one is justified in holding as to its position as a high authority on the chemical matters of which it purports to treat, nor attains that degree of accuracy and efficiency that is to be looked for in a legal standard of chemical testing. Timidly scrupulous accuracy of detail in simple matters is petty and annoying to the intelligent user, but is so traditional in Pharmacopœias that we may hardly regard it as a cardinal offence.

The attitude adopted towards the "Law" in the U.S.P. is, I think, innocently humorous. On p. xxxvii we are told:

"A change has been made in the method of expressing the chemical tests. The imperative mood was not used in former revisions, but since the Pharmacopœia is now a legal standard, the conditional form of previous Pharmacopœias, in which nearly every test began, 'If —— grm. be dissolved,' has been changed to the imperative, 'Dissolve —— grm.,' etc."

This is true in those cases where actual solution and some similar tests are given, but, strangely enough, the compilers forget their legal imperative in test after test of slightly different characters, so that no uniformity in the matter exists. Having attempted to secure this mote, the compilers do not seem to worry over such a beam (from a law-court point of view) as "specific gravity about 0.973," for example (p. 304), which raises a nice point to wrangle over if a dispute should arise.

Among the silly things (for it is really silly) one usually finds in books of this type, the remarks on p. xlvii stand pre-eminent. For the preservation of vegetable or animal substances from the ravages of insects, it is directed in special cases that they be preserved in tightly closed containers and a few drops of chloroform or carbon tetrachloride added. "*It is not intended that this precaution should be used for drugs imported in bales.*" The italics are my own.

To pass on to a few individual cases conspicuous for sins of omission or commission, I may commence with lard. A modified Becchi test is given for this fat to preclude the presence of cottonseed fats. It must surely be a matter of absolutely common knowledge that hogs fed on cotton-cake may, and very often do, yield an absolutely pure lard which gives a marked Becchi reaction, and no analyst of experience would condemn a lard because it yielded this reaction, unless the quantitative tests agreed with the presence of cottonseed oil. Incidentally the Becchi reaction is not accepted under Olive Oil, but we are directed to use Halphen's test for cottonseed oil. Why this variation?

In spite of exceedingly accurate formulæ for the determination of specific rotations given in the chapter on the subject on pp. 602-603, we are given the following under Camphor (p. 97):

"The specific rotation $[\alpha]_D$ of camphor in a solution in alcohol at 25° C. is between +41° and +42° in a 200-mm. tube, containing 10 grams of camphor in each 100 mils of solution. The alcohol must be of the strength of about 95 per cent. by volume."

The words "in a 200-mm. tube" are used incorrectly. The specific rotation is the same whether the observation be made in a 100-c.c. tube or a tube of any other length. It should have been a direction to make the observation in a 200-mm. tube. But the expression "about 95 per cent." is most unhappy. The specific rotation of camphor varies enormously with the solvent, and the exact strength of the alcohol is most important. Surely 94-per-cent. alcohol is "about 95 per cent."; but with 94-per-cent. alcohol the specific rotation of camphor falls below +41°. The expression "rotation of a ray of polarised light" on p. 602 is inaccurate.

Under Extract of Male Fern (oleoresin of male fern) we do not find a single test of any kind. Now, during the past ten years adulteration of this article, which was very gross, has been stamped out through the development of our knowledge of its characters. These are perfectly well understood, and the percentage of filicic acid, specific gravity, refractive index, and solubility are values substantially agreed upon by all experts. Why have they been omitted in this important legal standard? If because the compilers knew of these well-established tests, they are open to strong criticism for omitting them; if they did not know of them, the criticism would be still stronger.

On p. 206 is it right to see Spanish liquorice described as "also known as Italian, Levant, Persian, Turkish, or Arabian liquorice"? Surely the differences between Spanish liquorice and Italian and Turkish liquorice ought to be known to the compilers! Much work has been done on copaiba during recent years, but in spite of the fact that the refractive index and optical rotation of the oil are well defined and known, no refractive index at all is given, and the optical rotation is merely given as "not less than −7°." The acidity limits of 28 to 95 appear to be too wide, even for genuine Pará balsam, which would, apparently, be intended for inclusion.

Incidentally the refractive index is dealt with in a special chapter, and is highly commended as a method of testing; but in almost every case where the refractive index is well ascertained, it is omitted from the Pharmacopœia monographs. The expressions "refractive liquid" and "highly refractive liquid" are used, but the "valuable test" is conspicuous by its absence. It would seem that the writer of the chapter on the question and the writer of the monographs on essential oils were not the same person.

It is quite impossible to examine honey efficiently without a careful determination of its optical activity before and after inversion. On p. 602, in the chapter on Optical Rotation, a distinction is made between polarimeters and saccharimeters, and the equivalents of angular and sugar scales are given. But there is not a single word under Honey dealing with this the most important method of its examination, while comparatively trivial colour reactions are given undue prominence.

How far, judged from the view of the accuracy demanded of a legal standard will the statement (p. 299) that "castor oil is only partly soluble in petroleum benzin" bear examination? The fatty oils are given saponification-values and iodine-absorption figures, but no refractive indices. The Hübl and Wijs methods for determining iodine-absorption are well understood and universally adopted. What has induced the compilers to alter the Wijs method by using iodine-bromide solution? Further, they instruct one to use chloroform as the solvent. This is bad, because carbon tetrachloride is safer, and is generally employed, on account of the liability of chloroform to contain traces of alcohol.

In normal times the most common adulterant of olive oil is arachis oil. Colour reactions are given for cottonseed oil and sesame oil, but the perfectly definite and reliable method for detecting and approximately estimating arachis oil is not even referred to. This is incredible in a Pharmacopœia published in 1916! There are many minor objections to be advanced, such as the omission of well-recognised tests, the habit of "enlarging" melting-points by 2° and so on (acetanilide 112°-114°, phenacetin 133°-135°, acid. benzoic. 120°-122°, etc.), but the above criticisms illustrate what, to the writer, appears to constitute an absence of completeness and efficiency which one would have the right to expect in a standard work of legal authority.

Observations and Reflections.

By Xrayser II.

The War

may last at least another twelvemonth, and our Insurance-dispensing contracts for 1917 will have to be made under conditions similar to those of the present year. It will be as "unpatriotic" as ever to embarrass the Government by withdrawing from Insurance-work, and all the old arguments for continuing will be in full force. It is the more necessary that we should know at once exactly how we stand under our present contracts. That we are worse off than we were under the old arrangement is an accepted fact with most of us, but how much worse? Can we afford to go on as we are? The Society that is said to exist primarily for the protection of our interests ought to be prepared with a complete comparative statement, such as would enable us to decide our future course. But we must not again allow the Society to decide for us. What we want of it now is

Light Rather than Leading.

It occupies, or should occupy, a position of unique advantage for the survey and co-ordination of facts, but it is dominated by men who, being less vitally interested in the question at issue, which is one affecting the Society not as a political institution, but as a body of working pharmacists, are less competent than the bulk of the trade to decide it. We may be called upon again to forgo our rightful claims on grounds of patriotism or general policy, but it is for us, and not for these men, to say whether we will do so or not. It may be said that apart from the Society we have no means of making our decision effectively known. It would probably suffice to make it known *to* the Society, if only we spoke loudly enough and all spoke together, but if we have to wait the Society's time for the facts the hope of this may be small. Perhaps it would be enough to let the Society know without delay that unless the facts are forthcoming in time and we have the opportunity for a free choice we shall resign in a body. Meantime we ought to be prepared with means to ascertain the mind of the trade independently in case our "leaders" should fail us.

The Appeal to Local Associations

from Hull is somewhat belated, but better late than never, and it covers pretty well the whole ground of our complaint of the working of Medical Benefit so far as it affects pharmacists. Personally I should not care to press its second point, at least as it is here put. We may have been forced on to the panels by the fear of competition, but it is hardly dignified to say so, and it does not seem to me to improve our position as claimants for better treatment. Strength, or even an appearance of strength, usually makes a more successful appeal than weakness. This, however, is almost my only criticism of the Hull statement of our case. Points 3 and 4 have special force, and are admirably put; local Associations will be able to amplify and illustrate these and other items, and possibly to add further counts to the indictment. Point 5 might have been put more happily, but its contention is plain—a percentage of profit that is sufficient in large businesses may be ludicrously inadequate in ours. I hope that in its inquiry into the establishment-charge, by the way, the Society has called in the aid of a professional chemists' and druggists' valuer. It is only the closest expert knowledge of the minutiæ of the business that is of any real value here. May I urge our local Associations everywhere to follow the Hull lead?

Liquor Hypophysis,

according to the new U.S.P., is an aqueous solution of "principles from the fresh posterior lobe of the pituitary body of cattle." The title of the solution is, I think, somewhat unfortunate. According to accepted usage, and by the evidence of three English and American medical dictionaries which I have consulted, the hypophysis, or, more fully, *hypophysis cerebri*, is the actual pituitary body itself, and not a part of it only. The hypophysis consists of three portions—the anterior lobe, the *pars intermedia*, and the posterior lobe or infundibulum. Some doubt exists as to the part played by the intermediate tissue, but it is generally accepted that the functions of the anterior and posterior lobes are quite distinct—indeed, in some sense antagonistic to each other—hence many prescribers now order preparations not of the whole substance, but of the lobes separately as these may be indicated. The solution of the active principle of the posterior lobe has come into extensive use by obstetricians in midwifery, and the probability is that such employment will in the near future become almost universal in all highly civilised countries. It is therefore likely to lead to confusion to give the name of the whole gland to a preparation which is not a solution of the entire active principles of the gland, but only of the principle contained in one portion of it.

Eau de Luce,

says Sir Ray Lankester in his recently published "Diversions of a Naturalist," is a medicament formerly used, made by dissolving oil of amber in alcohol. This is a very imperfect and misleading description of Eau de Luce, the principal ingredient of which was ammonia, and in which amber played a very subordinate part; Rennie, indeed, says it contained none, though he gives under its name a formula identical with that of the spiritus ammoniæ succinatus of the P.L. of 1788, which was its official substitute. Wootton overlooks the fact that this preparation appeared in two editions of our Pharmacopœia earlier than that of 1824, though the formula was not the same in the earlier of the two, the soap being omitted and mastic and oil of lavender added in 1809. In 1851 not only was the oil of amber omitted, as Wootton says, but the name was changed to tinctura ammoniæ composita. Of the first official preparation Healde says that it was used mainly "for smelling at," but was sometimes given as a stimulant and diaphoretic. Amber had formerly a considerable place in medicine. It was prescribed in levigated powder, in doses of from 20 gr. to 60 gr., for various complaints, poached egg being a favourite medium. The volatile salt obtained in the distillation of the oil was, however, considered the best form for internal administration. Eau de Luce, without the amber, still retains a place in our non-official books. [All the formulas in "P.F." contain oil of amber, for the reason stated on p. 586.—Editor *C. & D.*]

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

79/48. "Mirmalid."
78/54. "Vaca" brand bicarbonate of soda.
77/54. "Macauley's cancer-cure."
81/69. Chlorophyll soluble in oil.
29/7. "Everybody's" solid fuel cooker.
76/4. Dr. Wilson's "Flower of Honey" hair-wash.
192/7. "Vonite Compo," used for polishing vulcanite goods.
83/55. Betaform.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

Baker's backache pellets, 79/61
Calico sample-bags, 66/34
California syrup of figs, 85/21
Canada balsam, 60/72.
Catgut, 74/63
Celluloid (sheet) for wound dressing, 82/26
"Cheltenham" diabetic biscuits, 72/43
Chemists' overalls, 62/35.
Dorin (of Paris): London agents, 59/9
Eau de Cologne: British manufacturers, 70/23
"Eldon" brand toilet-specialities, 64/29
Epsom salt, 60/72
"Eupnine," 71/4
Guaiacol, 69/6
"Harmless" brand dog soap, 67/58
Lecithin, 55/40
Marie Antoinette shampoo-powders, 74/14
Marshall's homœopathic pile-ointment, 55/43
Nitron, 60/47
"Odol" substitute, 79/62
Osborne's golden drops, 66/12
"Oxydol," 77/25
"Paternoster" pills, 74/13
"Persipit," 60/4
Pino-menthol pastilles, 61/60
Powder-puffs, 81/7
"Sal Hepatica," 85/21
"Santovin," 70/13
Seidlitz powders (packed), 85/21
Silver leaf, 72/33
"Terrol," 64/73
"Thyroidectin" capsules, 74/27
Tinker's dog-mixture, 64/73

"SANITAS"

DISINFECTANTS

(Fluid, Powder and Soap)

"Sanitas Fluid" No. 2 (Crude).
Non-poisonous, disinfectant and deodorant.
"Sanitas-Bactox."
Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas-Okol."
Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas Sypol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formic Sulphugators."
"Sanitas Formitas Outfits."
"Sanitas Formigators."
"Sanitas Drain Testers."
"Sanitas Polishes."
"Sanitas Distemper," for walls.
Peroxide of Hydrogen (Kingzett's Preserved.)

Kingzett's Patents

The "SANITAS" CO., Ltd.,
Locksley Street, Limehouse, London, E.

BRITISH
ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.I. Cale Distillery, Hutton Rd., LAMBETH, S.E.

FRENCH AND ALL FOREIGN
Proprietary
MEDICINES
Wilcox, Jozeau & Co.
49, HAYMARKET, LONDON, S.W.
Export and other Buyers should apply for a List.
" " Foreign prescriptions dispensed for Pharmacists.

SUPPORT YOUR COLONIES.
THE FINEST
COD LIVER OIL
IS
MUNN'S NEWFOUNDLAND
In 25-gallon tin-lined Barrels.
Samples and Prices from the Agents:
CHARLES LANE & SONS,
7-8 Idol Lane, LONDON, E.C.

"A revolution in the art of Urine Testing."—*Medical Press & Circular.*
ENDOLYTIC TUBES
"The Laboratory in the Waistcoat Pocket."
Wholesale Terms on application to the Sole Proprietors:
FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Index Folio 988

Editorial Articles.

Insurance Agreements, 1917.

THE National Health Insurance Commission (England) has issued to Insurance Committees a memorandum (227 I.C.) dealing with certain proposed modifications in the agreements of practitioners and chemists. The variations will be submitted in due course for consideration of the Panel and Pharmaceutical Committees. The proposed revision of the arrangements with panel practitioners is in connection with the relations between general practitioners and consultants in the rare cases when panel patients have access to specialists. In the case of the domiciliary treatment of tuberculosis the panel practitioner's duties in relation to the consulting officer are already defined in detail, and as there is likely to be an extension of the principle of the establishment of special medical treatment in the case of disabled sailors and soldiers, and in connection with the prevention and treatment of venereal diseases, it has been found advisable to make provision in the agreement with Insurance medical practitioners. The part of the memorandum which concerns chemists (besides the 1917 renewal provisions) is the suggestion for revising Clause 9 of the agreement for the supply of drugs so as to adapt the machinery of the Sale of Food and Drugs Acts to the purpose of testing the satisfactoriness of the supply of medicines to insured persons. Hitherto difficulties have existed when Insurance Committees have desired to sample Insurance prescriptions for the purpose of analysis under the Sale of Food and Drugs Acts. There was the question of who is the "purchaser" of an Insurance prescription in the ordinary way. Moreover, if the inspector under the Sale of Food and Drugs Acts is allowed to "purchase" a prescription from the chemist, how or what shall he pay? He must complete the purchase before he can follow out the formalities of dividing the sample. It is proposed to smooth the path of the sampler by adding to Clause 9 the following proviso:

Provided nevertheless that the chemist shall sell to any one of the persons mentioned in Section 13 of the Sale of Food and Drugs Act, 1875, or to any person authorised by such person, at the price usually charged to private customers, any drug or medicine prescribed or specified on the appropriate prescription-form provided by the Committee for the use of insured persons and signed by a practitioner on the panel.

The persons mentioned in Section 13 are as follows:

Any medical officer of health, inspector of nuisances, or inspector of weights and measures, or any inspector of a market, or any police constable under the direction and at the cost of the local authority appointing such officer, inspector, or constable, or charged with the execution of this Act, may procure any sample of food or drugs, etc.

The proviso goes further than has been anticipated. Insurance Committees wanted to test the medicines they got from dispensing chemists and others with whom they contracted, but the proviso will add the local authorities of England and Wales to the bargain that these traders make with Insurance Committees. From one point of view there is not very great objection to this: the onus is one that the dispensing chemist takes upon himself every time he opens his shop, but it is just as well that he should understand that the Insurance dispensing agreement after December 31, 1916, carries the Food and Drugs inspector with it. In accordance with the regulations, chemists having contracts with Insurance Committees will receive notice not later than November 19 of the alteration referred to. Unless chemists give notice in writing not later than December 3 to the effect that they desire their names removed at the end of the current year, they

will be deemed, in accordance with Article 19 (5) of the Medical Benefit Regulations, 1913, to have undertaken the supply of drugs, etc., for 1917 on the terms of the agreement as modified. We presume that the Pharmaceutical Council will have something to say about the matter at the meeting to be held on October 4. No report has yet been given of the establishment-charge question that a deputation from the May Conference submitted to Mr. Charles Roberts, M.P. The silence is disconcerting. Perhaps Mr. Roberts has been waiting for the Scottish report. This was submitted to the Commissioners in Edinburgh at the beginning of this month. Chemists will need to have patience until October, but if any depend upon more advantageous terms being obtained they had better make other arrangements.

A Great Physician.

The death of Sir Lauder Brunton will have come as a shock to many in pharmacy, for he was personally known to many, and his prescriptions were familiar to dispensing chemists all over the country. He came from Edinburgh nearly half a century ago, when his discovery of the specific action of amyl nitrite in *angina pectoris* was still fresh. The discovery was made while he was a resident physician in the Edinburgh Infirmary. It was his sympathy for a physically magnificent infirmary patient who suffered from angina that made him transfer his laboratory experiments to the infirmary ward; so he relieved his patient and gave the world one of its finest therapeutic blessings. Coming to London he had to make his own way. Twenty years ago he told a patient that it takes twenty-one years for a consulting physician to succeed in London: the first seven years he lives on borrowed money, the next seven he pays that money back, and it takes all the years of the third seven to assure himself of his position and live comfortably. His own career was akin to this, and he worked hard at Stratford Place, until a year or two ago, when he removed to De Walden Court near by. It was he who practically took the place of the late Sir Andrew Clark, and he was the first consultant in London to stipulate for an enlarged fee when a patient came to him for the first time and without his family medical attendant. This was merely Brunton's way of keeping down his practice. His intimacy with materia medica and his reputation as a pharmacologist seem to have been the things that attracted pharmacists to him—his "Tables of Materia Medica" (1877) preceded his "Text-book of Pharmacology" (1885), which made a name for him all over the world, but the charm of the man himself was as noted as his professional ability and reputation. He was still a comparatively young man (forty-three) when he was elected an honorary member of the Pharmaceutical Society, and we venture to say that those who put him forward, while knowing his pharmacological reputation to be unique, were equally moved by his remarkable personality. About that time he occasionally attended the Chemists' Assistants' Association meetings, and on these occasions he almost appeared to be a chemist's assistant himself; he seemed to know exactly what the feelings and the work of the members were, and the conversations with him after the meetings were delightful. He had a wonderful charm with his patients, too, and often his words did as much good as the medicine—as, for example, when he said, "Don't hurry, don't worry," to a man who had always been doing that and suffered in consequence. The wonderfully human side of the man remains to all who knew the physician. Clever and distinguished though he was, he had many other interests, some of them native to him (such as his knowledge of and love for the Bible), and these were seen in the life he lived as well as in his voluminous contributions to literature. A great physician he was, but equally an eminent Britisher and a true Scot.

The Government and Shellac.

When shellac-operators opened their newspapers on Tuesday morning they were confronted with the following statement from the Ministry of Munitions, which had been circulated to the London and provincial Press:

> In view of the excessive rise in the price of shellac, both in London and in Calcutta, in consequence of speculation, the Government are considering what steps should be taken to put a stop to this inflation of the price of a commodity which is required for military purposes.

The effect of this official statement was an immediate drop of from 3*s*. to 5*s*. per cwt. in the delivery or "futures" market, which has since been unsettled and business has been considerably curtailed. The spot market has also been similarly affected. It is to be hoped that the Government announcement will be taken as a salutary warning to speculators, who doubtless have wondered why decided official action was not taken long ago, especially in view of the fact that several produce and other markets are under Government control. It is interesting to note that at the end of July 1914 the spot price of the usual standard T.N. Orange quality was about 62*s*., and after a year of war the price at the end of July 1915 was about 62*s*. also, but by January 1, 1916, 80*s*. was the value, and since then there has been practically an uninterrupted advance to 133*s*., or over 100 per cent., and it is these facts which have necessitated Government action: It would probably be a wise step to prohibit speculation in "futures," at least for the duration of the war, especially as the spot price closely follows the paper transactions. The chief trouble is that, at the behest of the shellac-brokers, many "outsiders" have been induced to take a hand in the game, and as the statistical position has been very favourable for the operations of "bulls," many "outsiders" have succumbed to the temptation, and this is where the dangerous element comes in.

Liquorice-juice.

For several months past there has been a steadily rising market for liquorice-juice in block and stick, and the position regarding the winter supplies is one of interest both to the wholesale and retail trade at the present time. There appears to have been a very heavy demand of late both in this country and the United States for high-class quality of Italian and Spanish block juice, which demand can only be partially filled, so that manufacturers and large consumers have as far as possible fallen back on the best qualities of stick juice, which is only available in very limited quantities, and the consequence is that prices of block and stick are likely to advance still further. We understand that some heavy sales of good Spanish block juice have been made at as high as 170*s*. per cwt., and for a reliable Italian product as much as 180*s*. per cwt. f.o.b. is asked for forward shipment, which, with the heavy war-risk insurance, is equivalent to 200*s*. per cwt. in London. We also learn that already large orders have been received for the new season's crop of liquorice in the Spanish and Sicilian markets, where a certain "liveliness" has been shown, and the native growers of liquorice-root have again

considerably advanced their prices, which in consequence has influenced manufacturers and given a pronounced upward turn all round. The scarcity of labour and the high price of coal in Italy have also placed manufacturers at a disadvantage, and it is thought that prices will not return to the normal until a lengthy period after the conclusion of the war. The new season's produce is usually shipped from the Continent during this month onwards, and in several quarters Italian makers have intimated to their agents on this side that they have only limited quantities to offer for the remainder of the year. In view of these circumstances buyers would be well advised to cover their winter requirements without delay and as far ahead as possible.

Strophanthus-seed.

One of the indirect results of the war has been that remote places like the Nyasaland Protectorate have had to put up with a very much-reduced transport service to the Mother Country. Consequently considerable difficulty has been experienced in shipping produce, and one of the minor results has been a certain scarcity of strophanthus-seed of the genuine Kombé variety, the production of which is a monopoly of Nyasaland and the neighbouring Portuguese territory of Mozambique. The collection of this seed is in the hands of two firms in Nyasaland, who export the whole of their produce to London for sale. It is understood that both these firms are collecting as much seed as possible this season, and that it will be ready for shipment about October, so that further supplies should reach the London market early in the New Year.

The Treatment of War-wounds.

A Controversy is being carried on between Sir Almroth Wright and Sir W. Watson Cheyne regarding the efficacy of the rival systems of treating septic war-wounds which these surgeons employ. Sir W. Watson Cheyne is an advocate of the employment of antiseptics, and uses a paste, among other preparations, with which he fills the wounds, so as to ensure continuous antisepticity. Sir Almroth Wright, on the other hand, holds that it is impossible to disinfect a wound by Sir W. Watson Cheyne's process. He employs as a dressing hypertonic saline solution, with a view to inducing a flow of lymph in the wound, and so enabling the body to bring into use natural methods of combating bacterial infection. Sir W. Watson Cheyne criticised Sir Almroth Wright's method in the "British Journal of Surgery," and Sir Almroth Wright replies in "The Lancet," his remarks occupying about eleven pages of that journal. This reply is stated to be from official sources, but what these are is not mentioned.

Hypodermic Solutions.

The preference for ampoules rather than tablets for hypodermic injections has long been characteristic of Continental pharmacy, and for that Europe is largely indebted to the French. For years they were the principal manufacturers of ampoules, and they have always excelled in the accuracy and neatness with which these were put up. The argument in favour of the use of ampoules is, in theory, irresistible, for no one can gainsay that a dose from an hermetically sealed ampoule is much more likely to be sterile than one from a tablet, which is usually handled before it is dissolved in the syringe. Notwithstanding this, no careful doctor ever gets sepsis following injections even if he uses tablets. The fact is that the syringe and especially the needle are what require to be watched. If these are sterile the hypodermic tablet will give no trouble; if they are not sterile the hermetically sealed ampoule will not confer immunity. All the same the ampoule has been coming into fashion rapidly in this country, and we may soon see it displacing tablets. One objection is the relatively high price, the cost of half-a-dozen ampoules usually being more than that of three or four times the number of tablets; and this is a consideration that will have weight in the hard times that are said to be coming. So far as the Continent is concerned the ampoule is much less expensive than it is here, and the difference between its cost and that of tablets is not so great.

"Drug Progress."

This is the title of an article in "The Practitioner" by Dr. D. M. Macdonald, Armside, Westmorland, and in the course of it he says:

"Though perhaps not quite germane to the present subject, a wise move on the part of the Pharmaceutical Society would be to alter and extend the scope of the 'Major' examination, which confers on the successful candidate the title of 'Pharmaceutical Chemist.' At present the qualification is of nominal value. This is unfortunate, since the standard required is a high one, and the attainments are of high scientific value, a fact not generally known. Such an examination might be altered to include clinical pathology, bacteriology, and histology. A wide field of usefulness would be opened up in place of the present restricted one. For example, there is no reason why the work at present carried out in clinical laboratories should not be done by such pharmaceutical experts. These latter should receive in these subjects both university tuition and correspondent recognition. Swabs from throats are examined and reported on by a chemist in the county of Westmorland at the present time. This domain exists quite apart from the opportunities which, under the present crisis, should immediately become available in the sphere for the manufacture of pure chemicals and synthetic remedies."

There is much else in the article that indicates exceptional knowledge of pharmacy. Dr. Macdonald is a pharmacist, having passed the Minor examination in April 1891. Subsequently he studied at Aberdeen University and graduated there as M.B., C.M. in 1900, and as M.D. in 1906. He also studied at Middlesex Hospital, and is D.P.H. (St. Andrews) and M.R.C.P.Ed. He has published other papers than that we mention, and holds several public offices. His remarks in regard to the Major are peculiarly *à propos* at present, for they are sympathetic with the President's advocacy.

Glycerin Substitutes.

An enormous number of substitutes for glycerin have been recommended of late in Germany, where the shortage is even greater than in this country. According to writers in a German paper, a good substitute must answer to the following requirements:

It must have fatty properties, but should not be sticky.

It must be very hygroscopic, and should not be decomposed at high temperatures nor congeal at low temperatures.

For use as a cosmetic and medicinally it must be neutral, not poisonous, not irritable to the skin, be inodorous and tasteless, and not dry on the skin quickly. It should not corrode metals.

The authors describe five kinds of glycerin substitutes, viz.: (1) Gum, glue, and viscous substances; (2) sugar-solutions; (3) mixtures that contain fixed oils; (4) salt-solutions; and (5) mixtures of substances resembling these. They describe the following:

Group 1.—Lempellin, a decoction of Carragheen, preserved with borax and formaldehyde. Algin, an infusion of laminaria with a soda-solution. Novoglycin, a solution of glue in water. Glycerit, quince mucilage with 10 per cent. of glycerin and a little borax. They also mention preparations of agar-agar, fish-glue, Iceland moss, linseed, marshmallow-root, salep and tragacanth. An objection to all substitutes of this group is that they require preservatives for keeping them.

Group 2.—Glycerin substitute (Henkel), two sorts, both containing about 60 per cent. of sugar.

Group 3.—Proglycerin, a liquid lanoline emulsion. Paraffin is also recommended.

Group 4.—A solution of calcium chloride, 36 per cent., is recommended for some medicinal purposes. Perglycerin contains 45 to 70 per cent. of sodium lactate in solution, and perkaglycerin 60 to 80 per cent. of potassium lactate.

Group 5.—Solutions of glucose mixed with magnesium chloride.

It is apparent that, so far as the toilet-articles are concerned, the Germans are not a bit further forward than we are, and that their substitutes for non-freezing solutions follow upon old lines. We may recall the instructions given in our issue of May 20, p. 60, which give formulæ to work by.

Pharmaceutical Society of Ireland.

Council-meeting.

The Council met at 67 Lower Mount Street, Dublin, on September 12, Mr. James Tate (President) in the chair. Also present were Messrs. James Michie (Vice-President), G. D. Beggs (Hon. Treasurer), Thomas Batt, Wm. J. Hardy, John Smith, D. M. Watson, A. Owen Wells, P. N. White, J.P., and Dr. James A. Walsh.

Presentation to Mr. D. M. Watson.

Previous to the official business a presentation was made to Mr. D. M. Watson (ex-President), on the occasion of his marriage. The gift was a handsome silver rose-bowl on an ebony pedestal. The President, in making the presentation, spoke very happily of Mr. Watson and this notable event in his life. In the course of his remarks Mr. Tate said:

We congratulate Mr. Watson, and wish him and Mrs. Watson much happiness. This is not the time to refer to past Presidents or to establish precedents in so doing. Suffice it to say that among the galaxy of many true and useful men who have adorned this chair Mr. Watson takes an honoured place. Members of this Council decided to mark the event of Mr. Watson's marriage, which is, I believe, without precedent in its history, by presenting a memento of the occasion, and on their behalf I have very much pleasure in asking Mr. Watson to accept this rose-bowl as a memento which, we trust, will be acceptable to him and Mrs. Watson, and in wishing the wedded pair long lives of much happiness and happy surroundings.

Hearty and prolonged applause followed these remarks, and Mr. Watson, rising to acknowledge, said that the time he was in the chair and the time he occupied the vice-chair were extremely enjoyable years to him, this being undoubtedly due to the hearty co-operation he always received from the members and the Registrar. Having referred to more personal matters and the happy manner in which the President had treated him, he concluded:

I am sure that the handsome gift which you have presented to me to-day will be much appreciated by my wife, as it is by me. For the last ten days I have been house-furnishing, and there are one or two places where that rose-bowl will exactly fit. Will you allow me, before I sit down, to offer you my hearty thanks for the handsome gift, and particularly for the good wishes which you, Mr. President, expressed in making the presentation?

After the applause had subsided the Council business was taken up, the first item being a letter of thanks from Mrs. James Wells and family for the Council's resolution of sympathy on the death, on active service, of William F. Wells.

Registration of Pharmaceutical Assistants.

The Registrar read a letter from the Clerk of the Council, Dublin Castle, transmitting copies of the Order in Council as to pharmaceutical chemists' assistants (*C & D.*, September 9, p. 36). The following

Changes of Address

were notified: Mr. John H. Boardman, Ph.C., to 92 Main Street, Bray, co. Wicklow; Mr. Thos. J. Kerr, Ph.C., to 130 Divis Street, Belfast; Mr. W. M. Keys, Ph.C., to 30 Clarendon Street, Londonderry; Mr. C. R. McMullen, Ph.C., to 68 Brookvale Street, Antrim Road, Belfast; Mr. Henry R. Warren, Ph.C., to 284 Streatham High Road, London, S.W.; Mr. James Wellwood, Ph.C., to 149 Oldpark Road, Belfast; Mr. M. B. Widdess, Ph.C., to 55 Roches Street, Limerick; and Mr. John Tosh, R.D., to 96 North Queen Street, Belfast.

Preliminary Registration

Messrs. Thomas R. W. Bourke, Arthur F. Collins, and James Moroney submitted certificates from the Intermediate Education Board of Ireland, and were admitted to preliminary registration.

Members and Associate Druggist.

The following were elected as members: Mr. Max Greenbat, Ph.C., 12 Upper Camden Street, Dublin; Mr. John Healy, Ph.C., 81 West Street, Drogheda; and Mr. Henry J. Manley, Ph.C., The Medical Hall, Ballybay.

Mr. Robert Courtnay, R.D., Hamill's Medical Hall, Laurence Street, Drogheda, was elected as associate druggist.

Reports Adopted.

Reports from the examiners on the Pharmaceutical Licence and Pharmaceutical Assistants' examinations were received and adopted. They stated that twenty candidates presented themselves for the Pharmaceutical Licence examination, and that six passed; also that five candidates presented themselves for the Assistants' examination, of whom two passed. Reports from the Law Committee and the House Committee were also adopted.

Nominations.

The following were nominated for election as members: Mr. Benjamin Ralph Allshire, Ph.C., The Medical Hall, Glasnevin, Dublin; Mr. Denis Joseph Chadwick, Ph.C., Borrisoleigh, co. Tipperary; Mr. Timothy Horan, Ph.C., 30 Parnell Street, Clonmel; Mr. Patrick Michael Kavanagh, Ph.C., Grealy's Medical Hall, Galway; Mr. John Francis McCann, Ph.C., 13 Gilford Avenue, Sandymount, co. Dublin; Mr. Edward Stephen O'Connell, Ph.C., Courthouse Row, Listowel, co. Kerry; Dr. David O'Sullivan, Ph.C., 34 Tyrconnell Road, Inchicore, Dublin; Mr. Thomas Cecil Scott, Ph.C., The Medical Hall, Kilkee, co. Clare; and Mr. Arthur Harold Storey, Ph.C., Kensington Hall, Knock, Belfast.

The following were nominated for election as associate druggists: Mr. Michael S. Keane (trading as Kane), R.D., 72 O'Connell Street, Clonmel, and Mr. Thomas Frederick Storey, R.D., 14 Alfred Street, Belfast.

Pharmaceutical Licences.

The pharmaceutical licences of R. B. Brown, Rosalie M. Byrne, P. Kearney, J. McDowell, A. Templeton, and A. Thornton were sealed.

Council Election.

Messrs. G. D. Beggs and A. Owen Wells were appointed scrutineers of the voting-papers for the election of Council.

This was all the public business.

Insurance Act Dispensing.

A Record of matters concerning Chemists interests in the National Health Insurance Acts.

Allegations against a Walsall Doctor.

At Walsall (Staffs) on September 18, Mr. Fisher Williams (barrister, London), Dr. Russell (Stoke-on-Trent), and Dr. Fulton (Nottingham), opened, on behalf of the National Health Insurance Commissioners an inquiry into representations against Dr. J. J. Lynch, made by the Walsall Medical Committee and the Insurance Committee, who expressed the opinion that the continuance of Dr. Lynch on the panel was prejudicial to the medical service of the insured persons. Dr. Lynch was formerly the Chairman of the Insurance Committee, and he took a very prominent part in putting the Act into operation in Walsall. The charges now brought against him had reference to the allocation of insured persons who had failed to exercise their choice of a doctor in the early part of 1913, and to his actions in the matter of complaints lodged against him by two patients named Kendall and Forrester

Mr. H. B. Webster, the Clerk to the Insurance Committee, who was in the witness-box for eleven hours, stated that Dr. Lynch practically took the work of allocation into his own hands, and allocated 1,014 names to his own practice, and a further 653 names to a firm in which he was a partner. Actually he allocated 300 more names to himself than to any other doctor on the panel. Dr. Lynch, it was further stated, caused letters to be sent to four other local doctors (including Dr. Power, who was in partnership with him in one part of the town) requesting them not to place more than 1,500 patients each on their lists of acceptances, as a communication had been received from the Commissioners as to the fixing of a limit. As a matter of fact, it was alleged, no communication had been received containing any such suggestion. In cross-examination by Mr. W. J. Disturnal, K.C., the Clerk admitted, however, that as far as he could tell, the allocations were made in accordance with the regulations of the Commissioners. Another point in connection with the allocations was that the doctors' acceptance lists were closed on March 13, and it was urged that this decision was arrived at as the result of a representation by Dr. Lynch that it was the wish of the Commissioners.

Several doctors gave evidence to the effect that they protested against the closing of the lists, but they were told that the Insurance Committee had no option but to take that course. The Clerk also stated that in giving him instructions with regard to the insertion of an advertisement in the local papers announcing the closing of the lists, Dr. Lynch told him to request that it should be put in an obscure position.

A letter was produced containing a statement which was shown to be untrue. The Clerk admitted writing it and

signing it, but declared that Dr. Lynch dictated it and took full responsibility for it. Witnesses, who said they frequently called at the office of the Insurance Committee, deposed that Dr. Lynch absolutely dominated the Clerk, who was always reluctant to give information even on simple matters except in confidence. One doctor declared that the Clerk seemed to be afraid to say what o'clock it was.

With reference to the complaints, it was alleged that in the case of Kendall, Dr. Lynch delayed it coming before the Medical Services Sub-committee, and that when the Commissioners directed that it should be heard, the doctor tried to persuade Kendall to withdraw it. The Clerk admitted, however, that when the complaint was first made the Medical Services Sub-Committee was not in existence, and that he could not say that Dr. Lynch did anything to delay the case coming forward. It was also stated that when the complainant did attend before the Committee he became offensive to the Chairman, and refused to state his case.

The allegation in the case of Forrester was that Dr. Lynch persuaded the patient and his wife not to attend the meeting of the Committee on the day on which the complaint was to be investigated, offered to pay any expenses which the Committee might order the patient to pay, and subsequently made presents of cash and kind on his ascertaining that the letter of withdrawal had been sent.

When the Committee adjourned on Wednesday evening, after sitting three days, the case of the Insurance Committee and the Medical Committee had not been concluded, and it is anticipated that the proceedings will continue for the rest of the week.

Reports from Local Centres.

ENGLAND.

Derbyshire.—At a meeting of the Insurance Committee at Derby on September 18, it was agreed that a letter be sent to the Commissioners and the Panel Committee, expressing regret that the latter had not completely answered the representations of the Pharmaceutical Committee in regard to excessive prescribing for the year 1914, or a request from the General Committee for an investigation of prescriptions for November 1915. The Committee also directed that a settlement of the doctors' and chemists' accounts for 1914-15 should not be concluded without the question of surcharges being provided for. Dr. G. G. Macdonald declared that one effect of the resolution would be that considerable difficulty would be experienced in inducing any doctor to enter into a new agreement next year for the treatment of panel patients. The Secretary announced that the Panel Committee had arranged with a specialist in prescription work for assistance in examining the 1914 scripts that exceeded the average. It having been reported that in forty-four cases the monthly advance of 6*d.* per script resulted in a continuous over-payment, it was resolved that future advances to chemists be at the rate of 4*d.* per script. Instructions were likewise given that future deductions from the chemists' accounts in respect of the pharmaceutical levy should be at the rate of 4*l.* per cent.

Essex.—The Insurance Committee has decided that the stock-mixture provision shall come into force in the county on Monday, October 15. The formulas prepared by the Commissioners were published in the *C. & D.*, June 3, p. 39, and notes in regard to several of the mixtures which do not keep were published in succeeding issues. The dispensing-fee allowed for each of the mixtures is 2.3*d.*—*i.e.*, a halfpenny less than for ordinary mixtures.

Lancashire.—A financial statement issued by the Lancashire Prescription Bureau shows that the ten centres have contributed in two calls, from February 1 to June 30, a sum of 610*l.* 10*s.* After meeting expenses there remained a balance of 21*l.* 3*s.* 5*d.* During the period May 1 to July 29, 310,198 scripts were priced by a staff of eight, or a daily average of 5,970. For the first six months of this year the total scripts sent by the various towns gave an average per month of 87,547. The largest number was 94,022 in March and the lowest 74,962 in June.

Preston.—At the meeting of the Insurance Committee on September 14, the Joint Services Sub-Committee reported on their investigations of an insured person's complaint that she had had to pay for certain medicine ordered by her panel doctor. The insured person received two prescriptions from the doctor, one on a form of the Insurance Committee and the other on private notepaper. For tabloids not ordered on the official form she had to pay 3*s.* 6*d.*, and the Joint Sub-Committee recommended the sum should be refunded and the amount recovered from the doctor. Mr. T. Parkinson said the doctor failed to appear before the Sub-Committee; he treated it with contempt. Mr. J. W. Hoole did not think the matter ought to remain where it was. Insured persons ought to understand if they do not get adequate treatment they should appeal to the Joint Sub-Committee. Dr. Sellers protested against the tendency to generalise. Mr. Hoole had no right to make indefinite charges. Dr. Pimblett said the particular tabloids are a proprietary article, and the doctors have been told time after time such things should not be ordered if there is a suitable and adequate equivalent in the British Pharmacopœia. The particular doctor had been surcharged in the past for ordering drugs somewhat similar. To avoid this he told the patient to ask the chemist whether the article is permitted under the Act. Unfortunately the message was not delivered, and the chemist charged it as a private prescription. The Chairman (Mr. W. L. Holland) said no patient was expected to pay for medicine. In future they did not intend to hear the defence of any doctor who had not taken the opportunity of making it in the proper quarter. The report was approved.

Southend.—At the meeting of the Insurance Committee on September 12, the Finance Committee reported on the apportionment of the money received from the Commissioners in respect of Medical Benefit for 1915. The amount apportioned to the Drug Fund was 1,528*l.* 0*s.* 8*d.*, but in regard to the practitioners' fund the details are not clear, and a small Committee is to interview the Commissioners if necessary. Mr. S. F. Body said it is gratifying to see that chemists are to be paid in full for 1915, the first year of the Committee's existence. He moved that the chemists' accounts be settled forthwith. The Chairman said that as the Drug Fund is separate, there can be no objection to such a course. Mr. Body's motion was agreed to.

Notes.

Removal from Edinburgh.—The first step in the closer association of the English and Scottish Commissioners is occurring by the removal of the Edinburgh divisional offices covering unemployment to London.

A Conference has been held in Sheffield of Chairmen and Secretaries of the Insurance areas included in the North-East Midland Pricing Bureau with the Vice-President of the P.S.G.B. and chief officials. Although of a private nature, unanimous arrangements were arrived at for the future checking of prescriptions as well as other matters.

The Insurance Commissioners are requiring Pharmaceutical Committee Secretaries to furnish them with the objects of the Local Associations Conferences in London before they will admit it as a charge to the administration expenses. This charge, if allowed, will, like the cost of checking, be deducted from chemists' accounts by Insurance Committees.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. A. B. Reynolds, chemist and druggist, has been co-opted as a member of the Wallingford Town Council.

Mr. W. H. Whittock, chemist and druggist, Birmingham superintendent and director of Boots Cash Chemists, Western, Ltd., has been appointed to the Advisory Committee dealing with appeals to the Local Tribunal.

Private Frank Lawson, of the R.A.M.C., has recovered from an attack of enteric in a Mesopotamia Hospital. He served his apprenticeship in Lancaster (his native town), and was an assistant with Curtis & Co., chemists, Baker Street, London, when he enlisted.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Slann & Davies, brokers, have removed to new premises at 60 Mark Lane and 4 Hart Street, London, E.C.

Clifford Christopherson & Co., chemical-merchants and agents for the Washington Chemical Co., Ltd., have removed from 21 Mincing Lane to 6 Lloyd's Avenue, London, E.C.

The Proprietary Articles Trade Association, Chemists' Defence Association, Ltd., and "Anti-Cutting Record" have moved from Nos. 184 and 185 on the second floor of Temple Chambers to more commodious and convenient rooms on the first floor of the same building. The new address is 113 Temple Chambers, London, E.C.

Trade Notes.

RUSSIAN PRODUCE.—The Russian Produce Importers, 116 Fenchurch Street, London, E.C., announce that they have carbonate of potash, ergot of rye, and lycopodium always "on spot."

EMPIRE BRAND LANOLINE.—The British Lanoline Co. (Howard Lloyd & Co., Ltd., proprietors), Leicester, market their product as the "Empire Brand." It is prepared especially for pharmaceutical use.

THE OLD STRAND CHEMICAL AND TRADING CO., LTD., Aubrey House, Ely Place, London, E.C., have no connection with the Strand Chemical Co., Ltd., mentioned in the *C. & D.*, September 16, p. 39.

WILFRED TURNER & CO., LTD., 30 Craven Street, London, W.C., and Mr. W. Turner, the managing director of the company, have no connection, direct or indirect, with W. Turner & Co., Ltd., which was referred to in an Army contracts case.

THE MUNITION-WORKERS' HOLIDAY, from September 28 to October 1, appears not to relate to the chemical and drug trades. We have not received from any house (manufacturing, retail, or wholesale) intimation that they are to stop business during the period.

ASPIRIN.—Pickard, Ive & Rankin, Ltd., Walmer Chemical Works, Notting Hill, London, W., the purity of whose aspirin we recently referred to, make it by a continuous process. This new process, which has been evolved by a course of research, places the company in an exceptional position to supply the purest article at the cheapest price. Inquiries for quotations and samples are invited.

"Look for the familiar orange-coloured boxes in the chemists' windows."

These lines will be prominent in advertisements by Thermogene Co., Ltd., Hayward's Heath, Sussex, that are beginning in the leading daily papers next month. Chemists and druggists have special interest in the matter, for the thermogene advertisements have always promoted their sales of this product. It is interesting to recall that thermogene was of Belgian origin, and was brought here before the war by an Englishman, who tried it, found it do what was said of it, and now, thanks to his faith in it, thermogene is known over the whole British Empire. Any retail chemists who want help in regard to window-displays will get it on writing to the company.

"T. M." FROZEN BRILLIANTINE has just been introduced by Thomas Christy & Co., Old Swan Lane, London, E.C. It is a honey-like composition (but not related to honey otherwise than in appearance), and is put up in flat oval cases, decorated with aluminium and prettily printed, the lid being hinged. The box retails at 9*d.*, and the wholesale price is 5*s.* per doz., the brilliantine being packed in an easel-backed outer. It is one of those things that the chemist can make money off quickly, and it has been selling well. With reference to its associate, the "T. M." smoker's dentifrice, the firm inform us that the clock window-display is given free to chemists with 6-doz. orders.

BURNSIDE & CO., eucalyptus-distillers, Eagle Hawk, Victoria, are now offering their own make of eucalyptus oils through the *C. & D.* Their standard brand is an oil which in all respects conforms with the B.P. 1914 requirements. They also invite inquiries for oil of *Eucalyptus Dives* (commonly called amygdalina) and oil of *Eucalyptus Macarthuri*. The latter contains from 70 to 80 per cent. of geranyl acetate, and is worthy the attention of perfumery-manufacturers and others who desire an odorous substance peculiarly British. The amygdalina oil also has characters that have now given it an industrial position of its own, and this new source of supply should be noted.

SOLAZZI LIQUORICE.—In view of the recent advances in prices of block liquorice and stick, the proprietors of the Solazzi brand, which has been retailed by chemists for over one hundred years, are anxious that their make should remain in open market, and not be cornered for manufacturing purposes. The makers are not taking a lead in forcing prices up, but, as far as consistent with the enormously increased price of manufacture, are attempting to keep them at a reasonable level. They hope that both wholesalers and retailers will co-operate in their endeavour to keep Solazzi before the public, and not take advantage of comparatively reasonable prices to use the juice for manufacturing purposes.

HERTZ & CO., 9 Mincing Lane, London, E.C., inform us that Jensen's Norwegian cod-liver oil, hitherto only supplied in bottles, is now sold in bulk also. Several new departments have recently been added to the business, the firm being the U.K. representatives of Magnus, Maybee & Reynard, Inc., New York City, and are now offering their "Mohawk" brand of American redistilled peppermint oil in bulk, and of the finest quality witch-hazel extract, American pine oil, and vanillin. The firm are also direct importers of genuine pinus pumilio oil, Spanish spike-lavender and French almond oils, and can give close quotations to large buyers. Petroleum jellies (B.P. and technical qualities) and brilliantine oils are a feature, and all grades of these odourless oils (white, half-white, pale, and green) can be supplied promptly from stocks in London. The firm also offer a new synthetic otto (white and red rose) under the Haliflor brand, which they claim to be a perfect imitation of the natural product at a very low price. Haliflor freckle-cream in pots to retail at 1*s.* 6*d.* is also a new preparation which has taken well. The well-known Rieksecker's American perfumes and toilet-preparations are obtainable from Hertz & Co., who are also agents for a patent air-purifier for sick-rooms, hospitals, etc., worked by electric motor.

TETLOW'S POWDER.—Henry C. Quelch & Co., 4 Ludgate Square, London, E.C., are agents for the well-known Swan Down face-powder manufactured by Mr. Henry Tetlow, and inform us that owing to continued advance in the price of all raw material, rise in freights, and increased cost of labour, Mr. Tetlow had to decide whether (1) to reduce the quality of the powder or (2) to increase the price. The sale of Swan Down in the United Kingdom alone has reached over one million boxes per annum (believed to be an unprecedented figure). Mr. Tetlow decided that by far the wiser course is to maintain the standard of quality and increase the price, so from September 16 the minimum retail price of Swan Down face-powder will be 7½*d.* per box, and the wholesale price 74*s.* per gross net, with two dozen free bonus with each gross as heretofore. Mr. Tetlow feels that he will in this matter have the continued support of the trade in the United Kingdom. With the object of stimulating public interest in Swan Down, Mr. Tetlow has decided to advertise in twenty-eight leading daily, weekly, and monthly publications that are widely read by women and have a united circulation of over twelve million copies. This is a new venture, and it should increase the demand considerably, so that retailers should be prepared for this by seeing that their stocks are right and are kept right.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(*From the "Trade-marks Journal," September 13, 1916.*)

"NAWRUS"; for all goods (1). By C. M. Townsend, 10 Munster Square, Regent's Park, N.W. 373,545.

"PERCO"; for medicated kapok (3), raw or partly prepared kapok (4), and unmedicated kapok for surgical use (11). By S. Susan, 12 Underwood Street, City Road, N. 374,066/067/068.

"REGEDINE"; for medicinal chemicals (3). By Regesan, Ltd., Nottingham. 374,152.

"CUPROS"; for dental cement (11). By the Western Dental Manufacturing Co. (1914), Ltd., West Ealing, W. 373,927.

Device including words "TENAXAURINE" and "AURUM"; for a dental casting medium (11). By J. A. Dobbie & Co., Leith. 373,954.

"KUDOS"; for index-cards and sheets (39). By Boot's Pure Drug Co., Ltd., Nottingham. 373,866. (Associated.)

"CREBU" and "TUFNUT"; for edible oils and fats (42) By De Bruyn, Ltd., 20 Eastcheap, E.C. 373,940/1.

Device of two-faced head; for alcoholic essences (43) and for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, N.E. 373,731/2.

"CHAMPADE"; for beverages (43 and 44). By Stevenson & Howell, Ltd., Southwark Street, S.E. 374,183/4.

"VIKOLA"; for beverages (44). By Clayton & Jowett, Ltd., Liverpool. 374,029.

"VERA"; for face creams and powders (48). By Lorimer-Marshall, Ltd., 12 Tower Hill, E.C. 373,640.

"MAYROL"; for perfumery, etc. (48). By May, Roberts & Co., Ltd., 7-11 Clerkenwell Road, E.C. 373,838.

"CUTOLIA"; for toilet-soaps, etc. (48). By F. S. Cleaver & Sons, Ltd., Gould Road, Twickenham. 373,872.

"WINTHONE"; for perfumery, etc. (48). By C. Frankel and J. Weintroube, 190 Hammersmith Road, W. 374,051.

"GLOAMING"; for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Bristol. 374,085.

"PORLAC"; for perfumery, etc. (48). By Dearborn, Ltd., 32 Theobalds Road, W.C. 374,096.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., September 21, 5.30 p.m.

BUSINESS has been extremely quiet this week, and so far as fine chemicals are concerned the lower tendency continues. English refined camphor has been advanced 2*d.* by refiners. Menthol and mint oil are dearer. Quinine is a trifle weaker in second-hands; further reductions have been made in amidopyrin, hydroquinone, phenazone, and salol; outside parcels of bleaching-powder are easier. Linseed oil is dearer, coconut and copper sulphate firmer.

Higher	Firmer	Easier	Lower
Anise (Russ.)	Cumin-seed	Aloes (Cape)	Amidopyrin
Camphor, ref. (Eng. bells and flow.)	Coconut oil	Bleaching-powder	Cardamoms
Coriander-seed	Copper sulphate	Euonymus-bark	Ergot
Linseed oil	Fenugreek-seed	Milk-sugar	Formaldehyde
Menthol		Quinine (sec. hands)	Honey
Olibanum		Sarsaparilla (Lima)	Hydroquinone
Orris			Ipecacuanha
Sulphur			Phenazone
Turpentine			Salicylates
			Salol
			Senna (Tv.)
			Shellac

Cablegram.

NEW YORK, September 20.—Business in drugs is fair. Opium is lower at $10.50 per lb. for druggists'. Menthol has been advanced to $3.15, and peppermint oil in tins is steady at $2.25. Jalap is lower at 10c.; taraxacum dearer at 29c. Stramonium-leaves have been reduced to 18c., and so-called American saffron-flowers to $1.65 per lb.

ACETYL-SALICYLIC ACID is quoted at from 28*s.* to 30*s.* net as to holder.

AMERICAN BARKS, ETC.—The following are a few current net prices for roots, barks, herbs, etc., mostly for spot delivery: *Barks.*—Bayberry, 8*d.* to 8½*d.* per lb.; sassafras of root, 11½*d.* to 1*s.*; viburnum prunifol. (tree), 1*s.* to 1*s.* 1*d.*; wahoo (euonymus), 1*s.* 8*d.* to 1*s.* 9*d.*; thin wild-cherry, 8*d.* to 8½*d.*; witch-hazel, 7*d.* to 7½*d.* per lb. *Leaves.*—Truxillo coca, 8½*d.* to 9*d.*; damiana, 9½*d.* to 10*d.*; witch-hazel, 7*d.* to 7½*d.* *Roots.*—Leptandra, 9½*d.* to 10*d.*; kava-kava, 1*s* 4*d.* to 1*s.* 5*d.*; krameria, 10*d.* to 10½*d.*; serpentary, 1*s.* 9*d.* to 1*s.* 9½*d.* per lb.; Mexican sarsaparilla, 10*d.*

AMIDOPYRIN is offering at the lower price of 55*s.* per lb.

AMMONIA SULPHATE.—Quiet. Home trade September prices are 15*l.* and 15*l.* 10*s.* for October-May. Export prices are: London, prompt, 25-per-cent., 16*l.* 17*s.* 6*d.* to 17*l.* per ton net, naked at works, and forward 17*l.* 7*s.* 6*d.*; Hull, 24-per-cent., 17*l.* 12*s.* 6*d.*; Liverpool, 17*l.* 17*s.* 6*d.*; Leith, 18*l.* spot and 18*l.* 2*s.* 6*d.* for October-December, less 3½ per cent. in bags f.o.b.

ANISE.—Part of a parcel of Russian, good quality, recently landed was sold at 45*s.* per cwt., but the price has been raised since to 47*s.* 6*d.* and a further sale effected thereat. Good Spanish is still quoted 55*s.*

BALSAMS.—*Copaiba*, filtered Para is offered at 3*s.* 2*d.* to 3*s.* 2½*d.* in tins. B.P., 3*s.* 4*d.* Maranham, in casks, 3*s.* 9*d.*, and filtered in tins, 3*s.* 11*d.* *Peru*, 15*s.* per lb. net. *Canada*, 4*s.* net.

BARBITONE is offered at 55*s.* net to arrive.

BERGAMOT OIL for prompt shipment is quoted at from 23*s.* 6*d.* to 24*s.* 6*d.* net c.i.f. London, war risk extra, for 38-per-cent esters, the spot value being about 25*s.*

BLEACHING-POWDER, as mentioned last week, has been placed on the list for total prohibition to all destinations except under licence, which is very difficult to obtain. Makers are unable to offer, and in outside hands limited quantities are offered at 22*l.* to 24*l.* per ton.

BROMIDES are unchanged, potassium at from 6*s.* 3*d.* to 7*s.*, ammonium 5*s.* 3*d.* to 5*s.* 6*d.*, and sodium 4*s.* to 4*s.* 6*d.* as to seller.

CAMPHOR (REFINED).—The English makers have advanced their prices by 2*d.* per lb. to 2*s.* 6*d.* for bells, 2*s.* 5*d.* to 2*s.* 7*d.* for tablets as to size, and to 2*s.* 5*d.* for flowers, without engagement. Japan slabs are 2*s.* 7½*d.* spot.

CANARY-SEED is quiet and unchanged at 59*s.* to 62*s.* per quarter for ordinary to good Morocco. Spanish is 95*s.* to 100*s.* per 464 lb. ex store Liverpool.

CANTHARIDES.—A private advice from Russia indicates great scarcity, with an increase of about 50 per cent. in prices. Spot (London) values are from 13*s.* 6*d.* to 14*s.* per lb.

CARAWAY-SEED.—Stocks on the spot are exhausted, and offers of new crop Dutch for prompt shipment are not at present obtainable owing to the difficulty of getting export licences.

CHLORAL HYDRATE is offered at from 9*s.* to 9*s.* 3*d.* for crystals in bond, with one holder asking 10*s.* 9*d.*

CINCHONA.—Further particulars of the auction of pharmaceutical bark to be held at Amsterdam on September 28 show that the 993 bales and 820 cases weigh 96,595 kilos., the quinine content being 2,676 kilos; of the above, 84,914 kilos. consists of Succirubra, 1,425 kilos. Ledgeriana, 9,771 kilos Robusta, and 9,771 kilos. hybrid; the root-bark amounts to 26,612 kilos. In the drug-auction 64 bales of Crown bark offered and were bought at from 1*s.* to 1*s.* 6*d.* per lb.

CITRIC ACID is unaltered at from 2*s.* 10*d.* to 2*s.* 11*d.* per lb.

COCAINE.—Hydrochloride is selling at 18*s.* 6*d.* per oz. net for recognised brands, pure offering at 21*s.*

COD-LIVER OIL.—The Norwegian market continues dull, there being practically no quotation for medicinal oil.

COPPER SULPHATE is again firmer in Liverpool at 51*l.* per ton up to February.

CORIANDER-SEED is dearer; new crop Morocco has been sold at 32*s.* per cwt. and common old crop at 28*s.*

CREAM OF TARTAR is unaltered at from 185*s.* for 98-per-cent., and 187*s.* 6*d.* for 99 to 100 per-cent. powder.

CREOSOTE CARBONATE is offered at from 35*s.* to 40*s.* as to holder.

CUMIN-SEED is firm, with a good business done at 80*s.* per cwt. for good sifted Morocco and 82*s.* 6*d.* is now asked.

ERGOT.—Sound Russian is obtainable privately at 1*s.* 10*d.* per lb., being cheaper. In the drug-auction ergot sold at lower rates without reserve, eight bags of mouldy Portuguese realising 1*s.* 4*d.* and eight bags ordinary damp 1*s.* 3*d.*

FENUGREEK-SEED is very firm; new crop Morocco has been sold at 22*s.* 6*d.* per cwt. on the spot and at 21*s.* 6*d.* c.i.f. terms, but a higher price would now have to be paid.

FORMALDEHYDE is offered at the lower price of 72*s.* 6*d.* to 75*s.* per cwt. for 40-per-cent.

GOLDEN SEAL is offered at 26*s.* per lb. spot, and at 24*s.* 6*d.* c.i.f. to arrive.

HEXAMINE.—Spot is plentiful at 3*s.* 3*d.* per lb., and somewhat pressed for sale.

HOPS.—Market is quiet but firm in consequence of reports from the plantations. Mould has appeared in most districts, the attack being severe in some gardens. Quality of the 1916 crop will be very varied, and while there will be some good quality, some very inferior hops will be picked. This makes the hops of other years attractive at present prices, and as stocks of these are very limited, there is every possibility of an advance. With the lowest acreage on record, being 3,400 acres less than last year, and with imports prohibited, present prices (say a leading firm of hop-merchants) are very reasonable, and those who are not well stocked cannot do better than cover their requirements.

HYDROQUINONE is lower at from 21*s.* to 22*s.*

LAVENDER OIL.—Spanish *spike* is available in fair quantity on spot at 2*s.* 9*d.* to 2*s.* 10*d.* per lb.

LEMON OIL for prompt shipment is offered at 3*s.* 8*d.* net c.i.f., war risk extra, and spot is 3*s.* 9*d.* to 4*s.* *Terpeneless* is 57*s.* 6*d.* to 60*s.* c.i.f.

LINSEED is steady at about 80*s.* per quarter for fair quality.

LIQUORICE-ROOT.—A private advice from Russia states that the present crop is very poor; prices have advanced and are now double those of a short time ago.

MENTHOL is dearer, with spot sales at 11*s.* 6*d.*, and August-September shipment at 11*s.* 4½*d.* c.i.f.; also *oil of mint* at 4*s.* 3*d.* c.i.f. for September-October shipment.

METHYL SALICYLATE has a continued easy undertone at from about 8*s.* 6*d.* to 9*s.* 6*d.* True *Oil of Wintergreen* is offering at from 12*s.* to 13*s.* 6*d.*

MILK-SUGAR is slightly easier, either Dutch or American offering at 160*s.* per cwt.

Index Folio 994

OILS (FIXED).—*Linseed* is dearer at 38*s.* 6*d.* in pipes landed and 39*s.* 6*d.* in barrels. *Cottonseed* is firmer at 35*s.* for crude in pipes on spot, 40*s.* to 41*s.* for refined in pipes, and 48*s.* to 51*s.* 6*d.* for sweet refined in barrels. *Rape* is lower; ordinary brown naked on spot is nominal at 41*s.* 6*d.*, British refined in barrels is 48*s.* to 50*s.*, and Japanese in cases is 43*s.* c.i.f. for August-September shipment. *Coconut* is steady at 48*s.* for Ceylon in hogsheads on spot and 47*s.* in pipes. Cochin on spot is dearer at 51*s.* to 54*s.*, and London pressed is 41*s.* 6*d.* per cwt. Hankow *Wood* oil is 51*s.* spot and 49*s.* c.i.f. *Soya* is steady at 37*s.* 6*d.* c.i.f. for August-September shipment. *Lard* oil, 65*s.* to 78*s.* 6*d.*; *lubricating*, 17*s.* to 30*s.* per cwt.; *seal*, 39*l.* to 50*l.* per tun; *whale*, 43*l.* to 49*l.*; bright *sperm*, 45*l.* to 49*l.*; *cod*, 37*l.* to 42*l.* 10*s.*

ORANGE OIL for prompt shipment from Sicily is quoted at 10*s.* 9*d.* to 11*s.* per lb. net c.i.f. London, war risk extra. Terpeneless is 250*s.* c.i.f.

OXALIC ACID.—Crystals offer at 1*s.* 7*d.* per lb. on the spot.

PARALDEHYDE is offered at the lower figure of 9*s.* 9*d.* per lb.

PEPPERMINT OIL.—American oil in bulk is offered at 9*s.* 6*d.* net to arrive, and at 9*s.* 9*d.* to 10*s.* 6*d.* on spot. H.G.H. is 14*s.* per lb., London terms, to arrive.

PHENACETIN to arrive is offered at 87*s.* 6*d.* per lb. net.

PHENAZONE is lower at from 45*s.* to 47*s.* per lb. net.

PHENOLPHTHALEIN is offering at 75*s.* to arrive, but for prompt delivery previous extreme prices exist.

PILOCARPINE is firm at 23*s.* to 24*s.* per oz. for hydrochloride and 22*s.* for nitrate.

PODOPHYLLUM-ROOT is offered at 46*s.* 6*d.* per cwt. c.i.f. to arrive, and also at 46*s.* 6*d.* net on the spot.

POTASHES are on the weak side in view of the large supplies of Russian potash carbonate. First Government brand Montreal are offered at 155*s.* per cwt. for prompt delivery.

PYROGALLIC ACID.—Resublimed is quoted at from 15*s.* to 16*s.*, and crystals at 14*s.* 6*d.* to 16*s.* as to holder.

QUILLAIA is firm at 42*l.* per ton ex store Liverpool.

QUININE in easier tendency at from 2*s.* 5*d.* to 2*s.* 6*d.* per oz. for sulphate of Continental make.

SAFROL is offered at 2*s.* 6*d.* per lb.

SALICYLATES.—Prices vary from 8*s.* 6*d.* to 10*s.* for salicylic-acid powder, and up to 11*s.* for crystals. *Sodium salicylate* is quoted at from 9*s.* to 10*s.* for U.S.P. powder on spot and to arrive as to seller.

SALOL can be had at 17*s.*, but some ask 20*s.*

SHELLAC.—The official announcement of the Ministry of Munitions (see p. 43) has unsettled this market, and prices are lower, usual standard TN Orange quality selling on a basis of 130*s.* to 131*s.* Futures are also lower, TN for October delivery having sold at 132*s.* down to 126*s.* 6*d.*, and December 132*s.* to 127*s.* 6*d.*

SLIPPERY-ELM BARK is offering at 7*d.* per lb. c.i.f. to arrive, or at 8¾*d.* net on spot.

SODA HYPOSULPHITE is quoted at 15*l.* per ton in kegs for pea crystals, and 13*l.* 10*s.* to 14*l.* for ordinary in barrels.

SODA NITRATE is firm at from 17*s.* 6*d.* to 18*s.* 6*d.* per cwt. for ordinary to refined ex store Liverpool; on the spot from 17*s.* 3*d.* to 18*s.* 6*d.* is quoted respectively.

SPARTEINE SULPHATE is offered at 43*s.* to 44*s.*

SULPHUR.—Sicilian flowers are dearer at 15*l.* 5*s.* in bags, 15*l.* 15*s.* per ton in barrels, and roll 15*l.* 10*s.* ex wharf London.

TANNIC ACID.—*Levisa* is quoted at from 5*s.* to 5*s.* 3*d.* as to quantity; technical, 1*s.* 9*d.* *Gallic* is 5*s.* to 5*s.* 6*d.* as to seller and quantity.

TARTARIC ACID is unaltered at 2*s.* 10*d.* per lb., and slightly less for forward delivery.

TERPENE HYDRATE from 2*s.* 3*d.* to 2*s.* 6*d.* per lb. net covers current spot values.

TURPENTINE closed dearer at 43*s.* per cwt. for American on the spot, and 43*s.* 4½*d.* for October-December.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, E.C., September 21.

At the monthly drug-auctions a fair quantity of goods was offered, but little was disposed of. Cape aloes was plentiful, and only secondary qualities were disposed of at rather easier prices, there being no demand for fine. Annatto-seed sold at previously firm prices. Sumatra benzoin sold steadily, and for cardamoms there was no demand. Calumba brought steady rates, and for dragon's-blood small sales were made at previous prices. Russian ergot sold at a reduction, and for gamboge there was no demand. Honey of the various descriptions was offered in large quantities, and lower rates were accepted, demand being poor. Ipecacuanha was freely offered, and a reduction of 2*s.* per lb. would be accepted for Matto Grosso. Myrrh, although scarce, remains quiet. Olibanum drop sold at extremely high figures, and for rhubarb prices remain easy. Grey Jamaica sarsaparilla sold at firm prices, and for Lima 1*d.* per lb. decline was accepted. Tinnevelly senna sold at about private rates, but compared with the previous auction values of some qualities were 1*d.* to 2*d.* cheaper. Turmeric remains neglected, and for beeswax there was little demand, although privately the market is firm. The following table shows the quantity of goods offered and sold:

	Offered	Sold
Aconite	10	0
Ajowan-seed	67	0
Albumen	25	3
Almonds	20	0
Aloes—		
Cape	138	30
Socotrine (kgs.)	29	0
Zanzibar	1	0
Anise, star	62	0
Annatto-seed	60	15
Areca	54	0
Argol	64	0
Balsam (Canada)	1	0
Balsam tolu	23	0
Bay-leaves	57	0
Benzoin—		
Palembang	35	5
Siam	14	0
Sumatra	236	32
Buchu	38	0
Calumba	277	40
Cannabis ind.	68	0
Cantharides	16	0
Cardamoms	165	9
Cascara sagrada	330	0
Cashew-nuts	46	0
Chiretta	25	0
Cinchona	86	0
Cinnamon oil	4	3
Citric acid	1	0
Citronella oil	2	2
Coca-leaves	50	0
Cochineal	47	0
Colocynth	44	0
Coltsfoot	9	0
Condurango	90	0
Copaiba	5	0
Croton-seed	17	0
Cubebs	66	5
Cumin seed	6	0
Cuttlefish-bone	68	*14
Dill-seed	359	0
Dog-grass	56	0
Dragon's-blood	23	2
Elecampane	17	0
Elemi	73	30
Ergot	70	17
Eucalyptus oil	20	0
Euonymus-bark	48	0
Fennel-seed	10	0
Galangal	15	0
Gamboge	20	0
Gentian	24	0
Gum acacia	431	0
Jalap	46	0
Hellebore pow.	10	0
Henna	15	0
Ivory-nuts	5	5
Honey—		
Cuban	177	0
Haytian	115	35
Honolulu	60	0
Jamaica	569	74
St. Lucia	11	8
San Domingo	25	0
Ipecacuanha—		
Cartagena	10	0
Johore	30	0
Matto Grosso	35	1
Minas	4	0
Kamala	2	0
Kola	378	63
Kousso	3	0
Liquorice-root	93	0
Lycopodium .. cs.	10	0
cwt.	2	0
Madder-root	3	0
Manna	5	0
Mastich	12	0
Myrrh	20	0
Nux vomica	231	13
Olibanum	270	32
Orange-peel	34	0
Orchella	89	0
Orris	3	3
Pareira brava	20	0
Podophyllum	10	0
Quince-seed	5	*1
Rhubarb	90	18
Rose-water (dms.)	12	0
Sage	79	0
Sandarac	5	0
Sarsaparilla—		
Grey Jam.	35	9
Lima	8	8
Mexican	20	0
Native Jam.	13	0
Senega	13	5
Senna and pods—		
Alex. and Mecca	44	9
Tinnevelly	798	156
Stavesacre	11	0
Stramonium	3	0
Tamarinds	61	0
Tragacanth	6	0
Turmeric	926	7
Wax (bees')—		
Abyssinian	48	48
East Indian	95	0
Egyptian	62	0
Honolulu	7	0
Jamaica	10	0
Morocco	36	0
Mozambique	7	3
Wax (Japan)	35	0
Wild-cherry bark	35	0

* Sold privately.

ALBUMEN.—Three cases of ordinary dull from Portugal sold at 2*s.* 7*d.* per lb.

ALOES.—Cape firsts were neglected, and for secondary qualities slightly easier rates were paid. Good seconds, on usual 20-per-cent. tares, sold at 38*s.* 6*d.* to 39*s.*, and ordinary to fair seconds, part dull and soft, at from 36*s.* to 37*s.* 6*d.* per cwt. Good to fine firsts were retired at from 44*s.* to 45*s.*

ANNATTO.—Fair Jamaica was retired at 1*s.* per lb., and for 15 bags of fair Madras 9*d.* was accepted.

BALSAM TOLU.—For fair balsam more or less slightly drossy and unsorted 1*s.* 6*d.* was wanted, and for three cases of very drossy 1*s.* was paid.

BENZOIN.—Quiet. Eight cases good fair almondy Sumatra seconds, with slight storax flavour, sold at 8*l.* 5*s.*, being firm; eight cases middling seconds realised 6*l.* 5*s.*, and 16 cases ordinary ditto went at 5*l.* 12*s.* 6*d.* Five cases fair Palembang seconds sold at 80*s.* per cwt.

CALUMBA.—Of 133 bags, 40 sold at 30*s.* per cwt. for ordinary small to bold, part wormy and mixed with pickings; good small to bold yellowish sifted held for 60*s.*

CANNABIS INDICA.—True Bombay was offered at 8*s.* 6*d.* per lb., at which sales have been made privately.

CARDAMOMS.—Practically unsaleable at the moment. Three cases sold without reserve at 10*d.* for bleached Aleppy, and six cases at 1*s.* Extra bold pale Ceylon-Mysores were limited at from 4*s.* 9*d.* to 5*s.* per lb.

CINNAMON OIL.—Three cases Ceylon leaf sold at 3½*d.* per oz. subject.

CITRONELLA OIL.—For two drums of good Java 2*s.* 6*d.* per lb. was paid.

CUBEBS.—A sale of five bags fair was made at 8*l.* 12*s.* 6*d.* per cwt. Privately, small sales of good clean small berries have been made at 9*l.* 10*s.*

CUTTLE-FISH BONE.—Fair East India sorts are obtainable at 6*d.* and inferior damp at 3*d.* per lb.

DRAGON'S-BLOOD.—Two cases of pickings from reboiled sold at 7*l.* 10*s.* per cwt.

ELEMI was about steady compared with previous auction, five cases of good pale selling at 60*s.*, and for 25 cases of ordinary dingy 47*s.* 6*d.* per cwt. was paid.

GENTIAN.—A lot of 24 bales fair dried was limited at 90*s.* per cwt.

GUM ACACIA.—For 48 bales of small to bold glassy Sudan sorts 65*s.* per cwt. was wanted.

HONEY was difficult to quit, and much lower prices were accepted. Ordinary to fair liquid amber Jamaica sold at from 37*s.* to 40*s.*; dark liquid, 30*s.* to 33*s.*; good pale set, 44*s.*; brown to brownish set, 36*s.* to 40*s.* *Hayti*, good smooth pale set, 40*s.* to 41*s.*; brownish to palish set, 35*s.* to 37*s.* Of St. Lucia, eight cases sold at 35*s.* per cwt. for very dark liquid.

IPECACUANHA was quite neglected, although the importers' limits have been reduced about 2*s.* per lb. to 10*s.* 6*d.* for good sound Matto Grosso root. A bale of badly mouldy went at 8*s.*, and for further lots of slightly mouldy bids of 8*s.* 3*d.* are to be submitted to the owner. Of Johore, 30 bales offered, but no bids were made and the price did not transpire; a bale of siftings sold at 7*s.* The quality of Johore has deteriorated of late, and part of the parcel offered to-day was mixed with very thin and twiggy root. Cartagena was offered at from 7*s.* to 7*s.* 6*d.* per lb.

IVORY-NUTS. Five bags of fair Java sold without reserve at 15*s.* per cwt.

KOLA.—Although a considerable quantity offered, steady prices were paid, 40 bags of small to bold Java slightly dark halves selling at 6*d.*, and for 54 bags of fair to good bright Ceylon halves from 6*d.* to 6½*d.* per lb. subject was paid, very dark inferior going at 3½*d.*

NUX VOMICA.—Thirteen bags of fair to good bold Bombay sold at 25*s.* per cwt.

OLIBANUM realised extremely high prices, 32 cases of good fair to small yellowish drop selling at 77*s.* per cwt. subject to seller's approval.

ORRIS.—Three bales of lean Mogador sold at 35*s.* per cwt.

PAREIRA BRAVA.—A lot of 20 bags genuine offered and was limited at 75*s.* per cwt., which figure has been paid privately.

RHUBARB was extremely slow of sale; 10 cases of small to medium round horny High-dried, with three-quarters fair pinky fracture, sold at from 7*d.* to 8½*d.* without reserve, and 7 cases of small to medium round Shensi, with three-quarters pale grey and pinky fracture, sold at from 1*s.* 9*d.* to 1*s.* 10*d.* without reserve. In another instance a single case of medium round Shensi, with three-quarters pale pinky fracture, sold at 1*s.* 6*d.*, and a case of small round and flat ditto at 1*s.* 4*d.* Good flat High-dried is offered at 1*s.* 4*d.* to 1*s.* 5*d.*, and for medium to bold round horny High-dried, with three-quarters fair pinky fracture, from 8*d.* to 10*d.* is asked.

SARSAPARILLA.—Grey Jamaica, although offered in quantity, sold at firm rates, 6 bales fair realising from 1*s.* 9*d.* to 1*s.* 10*d.* per lb., and for rough dark and damaged 1*s.* 7*d.* was paid. Eight bales of Lima-Jamaica sold at 1*s.* 6*d.*, being 1*d* per lb. easier. Red native Jamaica was neglected.

SENEGA.—A lot of 13 bales inferior thin and chumpy offered of which 5 sold at 2*s.* 4*d.* per lb. The private price of good sound is 3*s.* net.

SENNA.—Owing to large consignments near landing, Tinnevelly has lately been selling privately at lower rates, and, compared with the previous public sale, prices paid to-day were from 1*d.* to 2*d.* lower. No *pods* offered. Tinnevelly leaf sold at from 3¾*d.* to 4¾*d.* for inferior to ordinary small and yellowish; 5*d.* to 6*d.* for middling to fair greenish; and 7½*d.* to 8¼*d.* for fair to good small and medium greenish. Of Alexandrian, 5 bales small broken sold at 2*s.* and 4 bales siftings at 1*s.* 1*d.* per lb. Whole green leaf was held at 3*s.*

TURMERIC was offered in large quantities; from 32*s.* 6*d.* to 35*s.* will buy fair Madras finger. Seven bags of oil and country damaged sold at 28*s.* per cwt.

WAHOO-BARK was limited at 1*s.* 9*d.* net, and privately 1*s.* 6*d.* c.i.f. is quoted.

WAX, BEES'.—Quiet in auction; 48 bags Abyssinian sold at 8*l.* per cwt. for fair clean yellow block, and for three bags fair Mozambique balls 7*l.* 15*s.* was paid. Bleached Calcutta was limited at from 8*l.* 10*s.* to 8*l.* 12*s.* 6*d.* Privately, the market is firm at 8*l.* for good clean East African, West African, and Abyssinian. Gambia is quoted at from 7*l.* 15*s.* to 8*l.* per cwt. in Liverpool.

WAX, JAPANESE.—Fair squares were held at 63*s.* per cwt.

Arrivals of Chemicals, Drugs, etc.

THE following is a selection of arrivals, during the period from September 13 to 18 inclusive, in the English ports named. Goods in transit are not included. The figures refer to the packages—*e.g.*, cases, bags, barrels, boxes, kegs, etc. The weights, when known, are specified:

To London.

Acetic acid (N.Y.) 20 brls., (Kobe) 250 dms.
Albumen 180 cs.
Almond oil (Fr.) 4 cks.
Aloes (B'bay) 95 pkgs.
Ammon. phosph. (N.Y.) 34
Annatto-seed 53
Antim., cr. (Ch.) 651 cs.
Antim. ore 7,524 bgs.
Arrowroot (St. V.) 1,529 brls.
Arsenic (Fr.) 17 cks.
Bay oil 14 cs.
Bay-rum 2 cks.
Bergamot oil 10 cs.
Bismuth ore 79 pkgs.
Calc. citrate (W.I.) 154 pkgs., (Sic.) 96 cks.
Calumba 288
Camphor (Fr.) 50 cs., (Jap.) 14
Camphor oil 30 cs.
Canary-seed (Mor.) 8,225
Cardamoms 110
Casein (Fr.) 1,272, (E.I.) 580
Cassia 319
Chaulmoogra oil 11
Chemicals (Fr.) 900 cks. 92 pkgs., (Osaka) 20 cs., (Montreal) 7 pkgs.
Chemicals, medicines, perf., etc. (N.Y.) 1,061 pkgs.
Chewing-gum 600 cs.
Chillies (E. Af.) 493, (Suez) 198, (B'bay) 60
Cinchona (Cey.) 5 bls., (E.I.) 355
Cinnamon 100 bls.
Cinnamon l. oil 8 cs.
Citronella oil (Cey.) 6 dms.
Cloves (Zan.) 2,233 bls.; *stems* 820 bls.
Coca-leaves 4
Coconut oil 232 pps. 55 pkgs. 490 brls. 244 cks.
Cod-liver oil (R'dam) 50 cs.
Copra 9,295
Coriander 1,183
Cubebs (B'bay) 59
Cumin-seed 1,064
Dextrin 100
Drugs (Japan) 45 pkgs., (Fr.) 10 cs.
Essent. oils (Sic.) 81 pkgs.
Eucalypt. oil 210 cs.
Fenugreek 400
Geranium oil (Fr.) 7 cks.
Ginger (Jap.) 140
Glucose 3,994
Glycerin (Amst.) 110 dms.
G. chicle 6 bls.
G. copal 1,362
G. damar 1,040
G. kauri 1,734
G. wattle (Adelaide) 118
Gums, undescribed (Adelaide) 1,348 bgs., (Morocco) 75 pkgs., (B'bay) 356 pkgs.
Honey (W.I.) 27 cs.
Insect-flow. (Jap.) 105 bls.
Kola 71
Lemongrass oil 75 cs.
Lime-juice (W.I.) 177 cks. 198 pns. 35 pps. 69 dms. 19 hds.
Lime oil 36 cs. 12 dms.
Linseed (E.I.) 67,769 bgs., (Mor.) 222, (Aden) 400
Liquorice (Sic.) 30 cs. 21 bgs.
Menthol 70 cs.
Milk-powder 54 brls.
Milk-sugar (Amst.) 100 cs.
Nutmegs and mace 256 cs.
Nux vom. 69
Oils, fixed: colza 9,596 cs., fish 9,650 cs., herring 4,500 cs., mustard 700 cs., peanut 1,500 cs. 699 dms., shark 750 cs., soya 10,900 cs., whale 1,000 cs.
Orange oil (W.I.) 2 cs.
Pepper 6,319 bgs.
Peppermint oil (N.Y.) 20 cs.
Perfumery (Fr.) 9 cs.
Pet. jelly (N.Y.) 371 cs.
Pimento 100
Pot chloride (Jap.) 560 bgs.
Pot. iodide (Jap.) 140 cs.
Quebracho ext. 1,200 bgs.
Quebracho wood 451 bgs.
Quicksilver (N.Y.) 400 bott.
Quinine 159 cs.
Roots, barks, herbs, etc. (N.Y.) 30 bls., (Paris) 6 bls.
Saltpetre (E.I.) 2,754
Sandalwood oil (Madras) 10 cs.
Sandarac 35 pkgs.
Seedlac 22
Senna (Tv.) 2,691 bls., (Suez) 166
Sesame-seed 23,250
Shellac 75 cs. 45 bgs.; *button* 224
Soda nitrate 17,925
Soda. perbor. (Fr.) 10 cks.
Soda pruss. 20 cks.
Soda sulph. (Fr.) 61 cks.
Soy 350 cks.
Soya-beans 2,947
Squill 9 bgs.
Sticklac 100 cs.
Sulphur (Sic.) 14,797 pkgs.
Tamarinds (W.I.) 13 cks.
Turmeric 252
Tartar (Fr.) 479 bgs., (Sp.) 185
Vaseline 377 cs.
Wax, bees' (E.I.) 50 bgs. 90 bdls. 34 cs., (Natal) 17, (Mor.) 249 pkgs., (Lisbon) 139 bls., (Mozamb.) 135 bls., (Aden) 77
Wax, veg. (Jap.) 99 cs.

To Liverpool.

Alcohol, wood 258 brls.
Ammon. anhyd. 250 cyl.
Antim. ore 644 bgs.
Arachis oil 3,112 cs.
Canary-seed 113 bgs.
Coconut oil 10 pps.
Copra 435
Cream of tartar (Palermo) 40 cks.
Cumin-seed 100
Drugs, etc. (Fr.) 9 cs.
Fenugreek-seed 200
Glucose 600
Glycerin (N.Y.) 4 dms., (Boston) 12 dms.; *crude* (B Aires) 6 dms., (Fr.) 100 cks.
Gums, undescribed (W.C. Af.) 120 brls.
Herbs (N.Y.) 7 bgs.
Honey (N.Y.) 160 brls.
Linseed 1,567
Liquorice-ju. (Sic.) 12 cs., (Naples) 45 cs.
Magnesite 5,270 bgs. 3,760 tons raw
Manna (It.) 34 cs
Olive oil (It.) 100 bxs. 30 cs. 2 brls.
Orris (Ital.) 7
Palm-kernels 90,781 bgs. 1,502 tons
Palm oil 2,964 cks.
Perf. spirits (Fr.) 12 cs.
Perfumery (Fr.) 175 cs.
Pills (N.Y.) 40 cs.
Porous plast. (N.Y.) 50 cs.
Quebracho ext. 24,784 bgs.
Soda acetate (Boston) 109 cs.
Soda nitrate 178,282 bgs.
Sulphur 4,231 bgs. 333 brls.
Tartaric acid (It.) 83 brls.
Wax, bees' (W.C. Af.) 90 pkgs., (R'dam) 8 bls., (It.) 6

Index Folio 996

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Naturalised Germans, Austrians, etc.

SIR,—When this war is over we of the chemist and allied trades should demand some pledge from our naturalised trade friends who have been trading among us for so many years, the pledge to take the form of a solemn promise not to trade with our enemies for a term of at least ten years from the date that peace is signed. These gentlemen have had our protection for years, are now buying goods from our various trades to keep their businesses open, and unless we get a definite pledge from them they will, as before the war, purchase goods from their original countries and undersell us by dumped goods as formerly. The trade should also insist that any firms trading as companies should put the names of partners or directors on all their stationery. We have a right to demand this for three special reasons:

(1) We owe it to those brave lads who have fallen and who are still fighting.

(2) To the parents of the fallen and to the torture experienced now by the parents of those fighting.

(3) By inviting the loyal naturalised traders in this country to express their approval of the scheme.

I know what clause 2 means to the parents, as my two sons have been in the firing line for months, and my three daughters are Red Cross nurses, and they see the result of this dreadful war brought about deliberately by the Germans, as history knows they were invited to a conference many days before war was declared, and they refused. It is, therefore, time that we made up our minds to trade with only British firms and our Allies.—Yours faithfully,

Newington Causeway, S.E. VINCENT WOOD.

Jay Mack's Curriculum.

Jay Mack, writing in reply to "J. P. N.'s" letter in the *C. & D.*, September 9, p. 51, says: "'J. P. N.' is illogical: decries the need for legal meals, would continue to leave the shop to unqualified or apprentices, for which chemists in Aberdeen were fined, and the Pharmaceutical Society prosecutes drug-stores for doing the same thing. He would penalise men in stores rather than teach them, forgetting that all pharmacy is coming to the stores' way of trading. He occupies a lot of space, but forgets to warn us that stores would teach their own men, and that if the biggest store started a postal system of teaching they would get over 2,000 pupils in 600 shops, and be sure of Government recognition at once; for all the pharmacy schools in the Kingdom have not got 1,000 pupils at one time.

He suggests wasting the Local Secretaries' time, rather than my plan of supervision by the Secretary in London, thereby creating fifty different kinds of supervision. In Ireland (where business is more leisurely) they can see the need for two grades of men; here we prefer to create unqualified drug-store owners by thousands. Last ten years quite 1,000 drug-shops have closed for want of buyers. Give it another ten, and we may then get Proctor's ideal of one chemist flourishing where two formerly existed.

The last-ditchers by 1926 will all be dead or panel doctors, while the rest of us will be prosperous business men instead of 'shoneen professors,' as an Irishman once told us in derision. That same Irishman is a chemist, a doctor, and a barrister; yet he said the ordinary qualified assistant is surely worthless enough already: a 'fearsome' curriculum would only make him worse. That was over ten years ago, yet nothing has been done."

The Insurance Outlook.

SIR,—In reply to "Xrayser II.'s" remarks *re* the panel, may I say I have been personally at some trouble to find out how we stand, and from information received believe that, so far from standing, some of us will be let down "crash," and great will be the fall. The position, I gather, is this: Our leaders form two parties. One, the "professional gents," do not trouble about the establishment-charge, but desire the fee raised. The others, the baser sort, do not care how the money comes so long as it does come. A good many of these are quite sharp enough business men to get a living without the panel. The first class never really did cater for the panel or want it: 2*d.* does not appeal to them. These two classes comprise the leaders, so called. The rank-and-file are differently situated, and this is the real trouble. A tremendous number of shops in industrial areas, such as S.E. and East London, Lancashire, and Yorkshire, for a time made pots of money despite the discount, and a good many of them still do so, inasmuch as it is fresh business and generally goes to the nearest. Whether this will continue remains to be seen. The Insurance has fallen both in quantity and price, and assistants and other expenses—everything, in fact—have risen. The future is therefore on the laps of the gods. But certainly one cannot expect anyone in a back street who can do anything like thirty prescriptions a day regularly to turn it up. If one has to put a man on, unless he can do more than pays his salary it is a loss, but to a small man in industrial districts it is a godsend. If the "professional gents" went off they would not be missed. If all the sharp ones turned it up they would not miss it, and the ones doing it now would do more and the doctors would do the rest. If the chemists doing the great bulk of the work are satisfied, it is useless others objecting. They have their remedy—resign. That is apparently the attitude of the gentlemen at Bloomsbury Square—implied if not actually expressed. These are the opinions I have gathered. Personally, if we get anything more I shall be more than surprised, because I believe Bloomsbury Square will let us down in order to keep the right side of the governing powers.

Yours faithfully,

ANOTHER SINGLE-HANDED CHEMIST. (82/13.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

"Meneler."

Mr. R. J. Atkinson (Tuxford) sends us a pencil-written order for "meneler," and says truly, "I think this nearly equals the order for Hawley's I.K. I was a long time finding out what was wanted, but at last got at it: it was salts of prunella."

Ferret's "Leavings" as a Cure for Whooping-cough.

"Could any reader suggest the rationale for this whooping-cough remedy? The ferret is allowed to lap the top portion of a basin of new milk, and the milk which he leaves after him is given to the child with whooping-cough. The cure seems to be more than an Irish 'pishogue,' as ferrets' 'leavings' are more trusted and more in demand than pharmaceutical products for the same purpose. My junior asistant goes in for ferret-breeding, and he is kept busy supplying the remedy."—*Wm. Dunphy, M.P.S.I.*

Making a Mistake.

"The query by 'Gantier' raises the question of bottle-washing by the chemist for the public. In my opinion, 'Gantier' is to blame for sending out the spirit of peppermint in a dirty bottle. If a man wishes to stand on his rights he should reject the bottle—*i.e.*, tell customer to bring a clean one. In practice, however, it seems to come easier to rinse it out oneself. If one starts to fight about these little matters one gets very little peace, and, roughly, the game isn't worth the candle! A plan I adopt is to put on one side odd bottles, such as small 'out-sizes,' which one gets for practically nothing—*e.g.*, lavona, barkola, carmarole, Seigels, and the like—any of which can be exchanged for one brought by a customer and unsuitable. *Per contra*, the dirty bottle brought by 'Gantier's' customer might do very well for some other purpose. The fact is one cannot be too careful to send out everything in its best condition and neatly labelled, for the sake of one's reputation."—*J. P. N.* (80/22).

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1916, beginning on page 341.

J. C. (81/63).—Both the labels are liable. As to the cholera-mixture one see *C. & D. Diary*, p. 349. If your quinine-and-iron tonic-mixture contains no other medicines than those named, the label may be a sufficient disclosure.

H. E. P. (83/11).—The lady is quite wrong about the stamping. It is only when a dutiable medicine is actually sold in Great Britain that it must be stamped. Medicines made and sold in France or any other country do not require the British stamp. Lots of medicines made in Ireland come unstamped to customers in Great Britain, and this is perfectly legal.

F. B. (78/25).—Indian Brandee is an alcoholic preparation which contains a drug or medicament, and the Board of Control's order in respect to medicated wines applies to it, but the sale of it as a medicine by chemists or druggists is not affected by the order. The fact that during the past fifty years there have been occasional prosecutions of vendors of Indian brandee by the Excise authorities for sale without a spirit-licence shows that the Board of Control order must not be overlooked by manufacturers and retailers. Most manufacturers are licensed compounders, therefore are not interfered with unless the preparation is not a medicine, but an intoxicant, and used as such. It is this latter provision that retailers must also respect: so long as the preparation is medicine and used as such it may be sold by medical practitioners or chemists or druggists, otherwise the order requires that each bottle shall bear a declaration of the amount of proof spirit that it contains, and the vendor must have a spirit-licence. The fact that a preparation contains spirit of nitre and spirit of chloroform does not put it definitely in the medicine class, for we know that the Board of Customs and Excise have removed from the medicine to the spirits class carminative preparations which are sold as medicines, and Indian brandee is in some districts used as an intoxicant. You should be in a position to know whether the preparation you mention is so or not.

Miscellaneous Inquiries.

F. & G. (53/71).—RUST ON IRON is best removed by sand-polishing, and afterwards a coating of black varnish should be applied to act as a preservative.

Lubrication (59/27).—You ask whether coconut oil is acid-free, but it is a vegetable fixed oil, and very few such oils are ever free from acid reaction. The British Pharmacopœia method of determining the acid-value of fixed oils given on p. 520 of the B.P. will suit your purpose well, and we refer you to it.

W. J. H. (52/53).—COLLOIDAL SULPHUR.—The preparation of a sulphur hydrosol is not a matter that can, as a rule, be carried out extemporaneously. There is, however, a solid form of colloidal sulphur, which may have been used in the case you mention. One way of making solid colloidal sulphur is as follows:

Ten parts of sulphur is boiled with 100 parts of alcohol, filtered, 1 part of albumin added to the filtrate, and the whole stirred into 500 to 1,000 parts of water. The milky liquid is acidified, the precipitate dissolved by neutralising the acid, and the solution evaporated.

A sulphur "collosol" prepared by the Crookes patents is sold by Oppenheimer, Son & Co., Ltd. This is a liquid form.

B. R. & B. (Lahore) (55/45).—POTASSIUM PERMANGANATE is an oxidiser, and on this account caution is needed in placing it in contact with organic matter. Paper-lined barrels containing it have been known to take fire.

Sapol (56/53).—MOTORISTS' HAND-CLEANER.—The following formula has been given in the *C. & D.*:

Powdered soap	7 oz.
Waterglass	2 oz.
Pumice, in fine powder	1 oz.
Kaolin	10 oz.

Grind together, and form into a paste, adding water if needed.

W. G. C. (56/30).—GLUCOSE IN JAM-MAKING.—It is distinctly stated in the *C. & D.*, August 26, p. 48, that it is the syrup-form of glucose that is recommended by the Board of Agriculture in jam-making. Solid glucose can be employed, but this form is not so convenient for the public.

J. N. K. (Zeitoun) (5/70).—(1) It is impossible for us to say "the source of the blue deposit which collects upon cotton-wool through which distilled water has been passed." The cotton-wool may have been treated with a trace of blue dye to neutralise the yellow colour remaining after the bleaching process, and this colour is perhaps rendered more conspicuous when the wool is wetted. (2) We note what you state about the supply of sodium sulphate in place of magnesium sulphate. This shows the necessity of the systematic testing of chemicals before they are placed in stock.

B. R. B. (63/36).—OL. MORRHUÆ IODATUM.—Reduce 9 gr. of iodine to fine powder, and dissolve it in 1 pint (20 oz.) of cod-liver oil, slightly warming to aid solution.

Caledonia (53/24).—SKIN-BLUSH LIQUID.—It is alloxan or mesoxalyl urea which is used for imparting a pink "blush" to the skin. The solution used is very weak. You could conduct a few experiments with a view of deciding the strength needed, starting with half a grain in the ounce. The colour does not develop at once on the skin.

Salt (58/39).—HÆMORRHAGE IN CALF.—Blood passing with the fæces is a common symptom of both scour and constipation. In either case give a dose of castor oil and lime-water. If constipation is the cause, it may be necessary to give injections and repeated doses of oil or some other laxative; when the bowel attains its normal condition the blood ceases to flow. If the bleeding arises from scour and the oil has no effect, try the following:

Cret. præp.,	
Catechu,	
Chlorodyn.	aa. ʒij.
Aq. menth. pip.	q.s.—M.

To be given every four hours in boiled milk or flour gruel till the scouring ceases.

Should the bleeding continue, give repeated small doses of ol. tereb., tr. ferri perchlor., or acid. sulphuric. Adrenalin is now used hypodermically for internal hæmorrhage, generally with good results. In prolonged cases bismuth subnitrate and acacia should be given as a sedative to the mucous membranes of the stomach and intestines.

R.A.M.C. Sergeant (63/58) wants the formula for DAKIN'S SOLUTION FOR WOUND-DRESSING. This is the sodium-hypochlorite solution. It was quoted in the *C. & D.* September 4, 1915, p. 52, the following being Dr. Dakin's own words: "One hundred and forty grams of dry sodium carbonate (Na_2CO_3), or 400 grams of the crystallised salt, is dissolved in 10 litres of tap-water, and 200 grams of chlorinated lime of good quality added. The mixture is well shaken, and after half an hour the clear liquid is syphoned off from the precipitate and filtered through a plug of cotton; 40 grams of boric acid is added to the clear filtrate, and the resulting solution is ready for use. A slight further precipitate of calcium salts may occur, but this is of no significance." This is Eusol (*C. & D.*, July 31, 1915, p. 144).

Apprentice (64/64).—"Ext. Filicis Maris ʒj." means one fluid drachm, but as the specific gravity is 1.000 to 1.025 there is no objection to weighing it.

G. R. (62/10).—In amœbic dysentery and colitis following it emetine is given hypodermically in doses of about ⅓ gr., and ampoules containing the requisite dose are obtainable. There is a good article on the treatment of mucous colitis in the sixth edition of Hutchinson's "Index of Treatment," by Dr. Murrell (Wright, Bristol). Sir Leonard Rogers deals with the use of emetine in amœbic dysentery in the "British Medical Journal," June 22 and August 12, 1912. An epitome of the literature of colitis is given by Moynihan and Upcott in the "Medical Annual" for 1913, p. 177 (Wright, Bristol).

C. A. M. (67/20).—The HAIR OF POMERANIAN DOGS should always be brushed up or backwards to make it stick up. By doing this daily a change for the better will soon be observed. A weak solution of gum arabic sprayed on after washing, or a mixture of alum and magnesia, may also be tried, but with regularity and patience the brushing is preferable.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1866.

B.P.C.

The Second Sitting commenced at half-past ten on Wednesday morning, August 23. The reading and discussion of Mr. Ince's essay on Pharmaceutical Ethics formed the business of the day, and proved sufficiently attractive to bring together the largest number of members that has yet attended a sitting of the Conference. The essay [printed in the issue without abridgment] was gracefully read by the author, and the attentive listeners evinced their approval of his tenets and counsels by frequent bursts of applause. [This historic essay filled six pages of the *C. & D.*, and was divided into (1) Ethics of the Shop; (2) Social Ethics: the behaviour of the pharmaceutist with regard to those in the same line of business as himself; (3) Medical Ethics; (4) Ethics of Public Life: the behaviour of the pharmaceutist as a member of his Society; (5) Personal Ethics: the behaviour of a pharmaceutist as an individual; (6) Ethics of Trade Extension.]

CONTRACTORS TO H.M. ADMIRALTY AND WAR OFFICE.

PICKARD, IVE & RANKIN,

LTD.

WALMER CHEMICAL WORKS,
NOTTING HILL, LONDON, W.

MAKERS OF

ASPIRIN

B.P.

BY THE ONLY CONTINUOUS PROCESS

ENSURING regular and prompt deliveries of uniform quality, unsurpassed appearance, and excelling the B.P. Standard of analytical test.

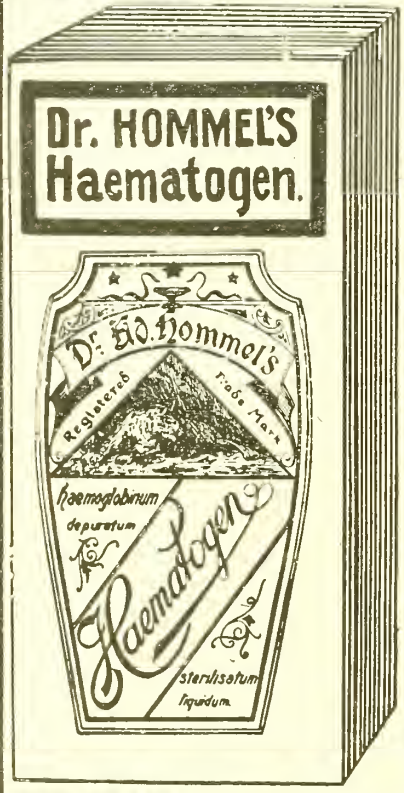
The continuous process *that we have recently introduced for the manufacture of our Aspirin marks the successful culmination of the combined efforts of our staff of highly trained research chemists and engineers, and constitutes a very striking advance in the application of scientific method to British chemical production. We have no hesitation in saying that our new method is unique in the annals of Aspirin manufacture, and results in the production of a material equal to the original German make.*

We can, therefore, guarantee satisfaction to all inquiries, not only as regards price and delivery, but also because the quality of our material is such as to obviate the harmful physiological after-effects always associated with the taking of the impure drug.

Telegrams : "Pickiveran Norkens."

Samples and Quotations Free.

Telephone : Park 4500.



Please Note that

DR. HOMMEL'S HÆMATOGEN

is, and always has been, manufactured in

SWITZERLAND

by Swiss Proprietors,

and that a continuous supply is assured.

NEITHER THE WHOLESALE OR RETAIL PRICE HAS BEEN INCREASED.

All Orders will be carefully attended to as hitherto.

Sole Agents for Great Britain, India, and Colonies:

GERTH VAN WYK & CO.,

36 & 36a St. Andrew's Hill, LONDON, E.C.

MALLINCKRODT CHEMICAL WORKS OF CANADA LTD.

THE products of our manufacture are of the Purest and Highest Standard. We are in a position to offer the Mother Country and Sister Colonies a full line of PHARMACEUTICAL AND PHOTOGRAPHIC CHEMICALS.

Acid Pyrogallic (Crystals and resublimed)
Hydroquinone
Trional (Methyl-Sulphon.I)
Morphine Salts
Acid Gallic
Rhodol (Metol)
Acid Tannic
Sulphonal
Hexamethylenetetramine

MADE IN CANADA

ACID ACETYL-SALICYLIC B.P.

(Pure Aspirin)

Manufactured at our Montreal Works. BRITISH MAKE.

Lowest Prices for Wholesale Quantities.

Cable Address: "Mallchem Montreal."

GIGNOUX FRÈRES & CO.

Manufacturers of Pharmaceutical Preparations,

Works at DECINES, near LYONS (France)

OFFER

EXTRACT OF MALE FERN (ethereal), guaranteed pure (24/25 % Filicine).

Solid Extracts of KOLA, COCA, CINCHONA, GENTIAN, etc.; all pharmaceutical extracts.

HYDROGEN PEROXIDE, chemically pure.

ETHER, 0.720 — ANÆSTHETIC ETHER — ABSOLUTE ALCOHOL.

COLLODIONS of all kinds.

SPECIALITIES:

GELLOPLASTRE: an adhesive surgical and industrial tissue.

GELLO. Pure Alcoholic products in jelly form put up in tubes:—

GELLO-COLOGNE GELLO-LAVANDE
GELLO-MENTHE GELLO-CAMPHRE
GELLO-FIORAVANTI.

METALLINE: a liquid metallic solution for capsuling bottles and vials.

WE SOLICIT OFFERS

for all kinds of Medicinal Plants and Herbs.

You *could* sell nearly every customer a jar of Resinol.

Try it to-morrow, and note the pleasant increase in the day's sales. Instruct your assistants to ask each customer if he has ever tried Resinol, and then to explain how it is a soothing, healing, antiseptic ointment, not only for Eczema, Pimples, and other skin troubles, but *invaluable* in every household for those constantly occurring rashes, chafings, cuts, bruises, burns, and a score of other uses. It takes the pain out at once, and stops itching instantly. With every sale of Resinol Ointment for *any skin trouble* you should also sell a cake of *Resinol Soap*. The patient should bathe the affected surface with Resinol Soap and hot water before applying Resinol Ointment.

SEND FOR A MINIATURE RESINOL SHAVING STICK

It's free. We want you to learn how this rich, creamy lather soothes and heals the face. When you have tried it you will WANT to recommend it to every man who comes into your shop.

Resinol Chemical Company,

97 New Oxford Street, London, W.C.,
and Baltimore, Maryland, U.S.A.

Australasian Agents: CHARLES MARKELL & CO., Sydney, N.S.W.

SUBITOL

The product of an allied country PERFECTLY REPLACES

ICHTHYOL

In 4 oz., 8 oz., and 1 lb. Tins, also in bulk quantities.

To be had from Wholesalers, or direct from

CHAS. ZIMMERMANN & CO. (Chemicals), Ltd. (British Firm), 9 & 10 St. Mary-at-Hill, LONDON

Established 1846 — **Ferdinand ROQUES, PARIS. FACTORY: ST. OUEN.**

Manufacturer of PURE PHARMACEUTICAL CHEMICALS.

GOLD MEDALS: PARIS, 1889, 1900. — **GRAND PRIX: TURIN, 1311**

COCAIN, PILOCARPIN, SPARTEIN. "ROQUES."

OTHER SPECIALITIES: Refined Camphor, Iodides, Iodoform, Iodothymol, Bromides, Bromoform, Bismuth Salts, CACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR THE U.K. (Wholesale only):

W. CHARITY & SONS, 14 Harp Lane, London, E.C.

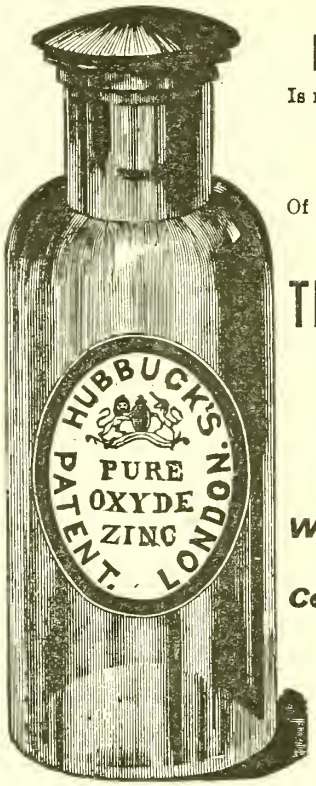
Tlephone AVENUE 4359
Telegrams: "CHARITY LONDON."
Codes A B C, and LIEBER'S.

HUBBUCK'S PURE OXIDE OF ZINC.

Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)
Baiss Bros. & Stevenson (Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British DrugHouses(Lim.)
Burgoyne, Burbidges & Co.
Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan (Lim.)
Harkness, Beaumont & Co.
Hatrick, W. & R., & Co.
Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edinboro').
Ismay, John, & Sons
Lofthouse & Saltmer (Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raimes, Clark & Co.
Raimes & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R., & Co.
Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler & Thompson (Lim.)
Woolley, Jas., Sons & Co. (Lim.)
Wright, Layman & Umney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham, Boston.
Finlay & Branswig, New Orleans.
Langley & Michaels, San Francisco.
Lehn & Fink, New York.
McKesson & Robbins, New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaker, Philadelphia.
Schieffelin, W. H., & Co., New York.
Shoemaker, R., & Co., Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON, LTD.

(Established 1765)

24 LIME STREET, LONDON, E.C.

Manufacturers of—

White Lead, White Zinc, Paints, Oils, Colours, Varnishes, &c.

Australian Office—
34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

THE FABRA COMPANY, LTD.

24 Minories, LONDON.

Lloyds Bank Bldgs., MANCHESTER.

54 Gordon Street, GLASGOW.

ACETIC ACID, 70% & 80%
BISMUTH SALTS
BROMIDES
HYDROKINONE
PHENAZONE
SALICYLATES

Vicar Lane, BRADFORD.

Powvalla Buildings, 237 Hornby Road, BOMBAY.

29 Broadway, NEW YORK.

1865-1916.

Samuel G. McCotter & Co.

Cable Address: "McCotter New York." **13 GOLD ST., NEW YORK CITY**

BROKERS IN

DRUGS, CHEMICALS, DYESTUFFS, AND ESSENTIAL OILS.

AGENCIES SOLICITED. CURRENT MARKET PRICES MAILED WEEKLY TO WHOLESALE TRADE ON REQUEST.

EMETINE HYDROCHLORIDE HYDROBROMIDE

WHIFFEN & SONS, Ltd., BATTERSEA, S.W.

PATTINSON'S

MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, **ENGLAND.**

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 6 Lloyd's Avenue, London, E.C.

SCIENTIFIC ORGANOTHERAPY PRODUCTS

"OPOCAPS" (Regd.) and SPECIAL REGISTERED PRODUCTS.

Lymphoid Compound, Lymph Serum, Ovamammoid Compound, Adrenin (B.O.C.), Hæmatothyroidine, Retropituitrol, Eukinase, Pancreatokinase, and Extracts Thyroid, Thymus Suprarenal, Splenic, Red Bone Marrow, Prostatic, Placenta, Pituitary, Parathyroid, Lymphatic, Corpora Lutea, Biliary, Renal, Hepatic, Gastric Mucosa, and all other Organo-therapeutical Preparations employed in Modern Medicine.

THE BRITISH ORGANOTHERAPY CO., Ltd., Carlton House, Lower Regent St., London, S.W.

Telephone—Gerrard 7111. *Telegrams—"Lymphoid London."*

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

WE CAN OFFER FIRST HAND

SODA SULPHATE (PEA XTALS.)
ACETIC & OXALIC ACID.
ACID TARTARIC. QUININE.
FORMALDEHYDE.
BATH SALTS.

A. D. CHESTER & CO., LTD.

Chemical Works, Drummond Road, Bermondsey, London.

Telephones - - Nos. 6 and 4782 HOP.

Russian Carbonate of Potash

Ergot of Rye

Lycopodium

ALWAYS ON SPOT

RUSSIAN PRODUCE IMPORTERS,

116 Fenchurch St., London, E.C.

Tel.: Avenue 6088.

NEW BARKS

Spring is our Season for gathering—

SLIPPERY ELM BARK (WHOLE OR POWDERED).
WILD CHERRY BARK.
SASSAFRAS BARK. WAHOO BARK. FRINGE TREE BARK.

LET US ENTER YOU ORDER ***NOW*** FOR THE

NEW CROP

HEADQUARTERS FOR **MANDRAKE ROOT, CASCARA, CASCARILLA, LOBELIA, Etc.**

S. B. PENICK & COMPANY, CRUDE BOTANICAL DRUGS.

CABLE ADDRESS: "PENICK, DRUGGISTS, NEW YORK." **NEW YORK. MARION, N.C., U.S.A.**

ALFRED WHITE & SONS,

Established 1775.

Manufacturing & Export Chemists.

Telegrams: "Ether Methylated London."

Telephone: 1315 Holborn.

Our BISMUTH CARBONATE is free from Nitrates; not only does this salt stand "The British Pharmacœpia" test with indigo solution, but also the very delicate Diphenylamine test.

PRICE LISTS FREE ON APPLICATION.

Offices and Warehouse: 28-31 ALLEN STREET, GOSWELL ROAD, — LONDON, E.C. —

Works and Wharf: — YIEWSLEY — CHEMICAL WORKS, WEST DRAYTON, MIDDX.

USE BRITISH PRODUCTS.

NEPENTHE.

When the prices of nearly all sedatives and hypnotics have advanced considerably, we may be pardoned for calling attention to the fact that the price of "Nepenthe" remains unaltered.

THE SAFEST AND BEST PREPARATION OF OPIUM.

NEPENTHE in 2 oz., 4 oz., 8 oz. and 16 oz. bottles.
GLYCEROLE OF NEPENTHE (eight times the single strength) for hypodermic injection. In 1 oz. bottles.
NEPENTHE SUPPOSITORIES in four strengths. Equivalent to ⅛, ¼, ½ and 1 grain Morphia.

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property. No substitute may be dispensed when "Nepenthe" is ordered in a prescription.

FERRIS & COMPY., LTD., BRISTOL.

HENRI PELLIOT & CIE,

27 rue des Francs Bourgeois, Paris.

CREAM OF TARTAR 98/99%
CITRIC ACID
TARTARIC ACID
ALL ALKALOIDS & CHEMICALS.

Telegrams: "CHARPELLIO, PARIS."

FINE CHEMICALS

We shall be pleased to quote for the Fine Chemicals that are now available. Packages can be made up to suit your own convenience, and goods placed, if necessary, free on board.

Among others, we can quote for—

ASPIRIN B.P.
ANTIPYRIN.
ACID SALICYLIC.
QUININE SULPH.
BISMUTHS.
QUININE HYDROCHLOR.
METHYL ORANGE.
SALOL.
NAPHTHALENE BALLS.
ACETIC ACID GLACIAL, 98/100%
ASPIRIN TABLETS (in bottles).

We are anxious to meet new friends and cordially invite them, as well as our old ones, to send us their inquiries. Keen, competitive prices will be quoted every time.

HARTLEY FLOREY,

54 Lower Thames Street, London, E.C.

Phone: Avenue 3889. Telegrams: "Yerolftrah, Phone, London."

EPSOM SALTS, Druggist and Commercial Qualities.
ZINC SULPHATE, Druggist and Commercial Qualities.

Prompt and forward deliveries. Inquiries solicited.

WILLIAM BLYTHE & CO., LTD.,
CHEMICAL MANUFACTURERS. CHURCH, LANCASHIRE.

Cable Address: "CELAITCH, NEW YORK."

CHAS. L. HUISKING,

5 PLATT STREET, NEW YORK CITY,

Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.

Special Offer this issue

FORMIC ACID

CHLORIDE BARIUM.
OXALIC ACID.
ACIDS FOR EXPORT.
GUM ARABIC.
GUM TRAGACANTH.

GLUES, GELATINES
GUMS AND WAXES.
INKS, SEASONS, FINISHES.
LOGWOOD PRODUCTS.

CHEMICALS

BORAX.
BORIC ACID.
SODA HYPO.
BICHROMATES.
CHROME OXIDES.

IRISH MOSS.
DYE-WOOD & TANNING EXTRACTS
OILS, CHROME AND FAT LIQUORS.

GOUGH, KIDSTON & CO.
12 BERMONDSEY SQ., LONDON, S.E.
City Office: 43-45 Great Tower Street, E.C.
Tel. Add.: "Kidstonism, Bilgate, London." 'Phone: 2029 Hop.

PERFECT PHOTOGRAPHIC EMULSIONS
depend on the purity of their ingredients.

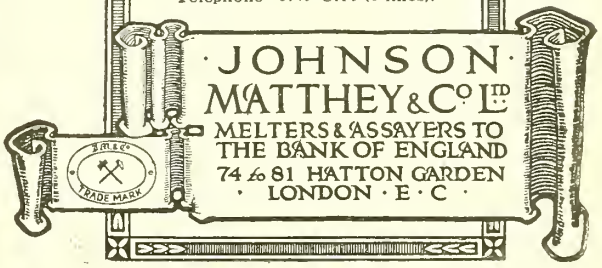
NITRATE SILVER

is the most important of these, and it happens also to be very sensitive to contamination.

A wide margin of safety has therefore always been our principle in manufacturingit. Firstly, throughout the whole of our processes we use exclusively vessels made of Gold and Platinum. Secondly, all our first crystals are twice redissolved and recrystallised. Thirdly, every batch of final crystals is tested before passing into our st ock.

Our guarantee of highest purity is thus assured.

Compet ive Quotations on request.
Mark indents "Johnson, Matthey's."
None genuine if not labelled with our name and Trade Mark.
Cables—"MATTHEY LONDON"
(all Codes used)
Telephone—9740 CITY (6 lines).



FUERST BROTHERS

17 PHILPOT LANE

LONDON, E.C.

MODERN PLANT FOR CHEMICAL WORKS MADE IN ACID-PROOF

STONEWARE

TANKS, STOPCOCKS, SUCTION FILTERS, VALVES, ACID ELEVATORS, BASINS, &c.

Telegrams: "FUERST, GRACE, LONDON."

Telephone: London Wall 4350 (4 Lines).

MADE IN USA © 1916 AMERICAN BUREAU OF FOREIGN TRADE NEW YORK, U.S.A.

WE OFFER

FOR SPOT AND FUTURE DELIVERY

HYDROQUINONE
DIAMIDOPHENOL (Amidol)
EXOL (Metol Substitute)
CAFFEINE ALKALOID
FORMALDEHYDE
SALICYLATES
BROMIDES

ALSO

ALL SCARCE AND PRECIOUS DRUGS AND CHEMICALS.

American Bureau of Foreign Trade

Importers and Exporters of Drugs and Chemicals,

44 WHITEHALL ST., NEW YORK

Cable Address: "NOMEREXPO." ALL CODES.

British Pharmaceuticals

ACETANILID
HYDRARG. c. CRETA
SODA SULPHOCARBOLATE
ZINC SULPHOCARBOLATE

E. H. BUTLER & SON, Manufacturing Chemists
93 Humberstone Gate, LEICESTER.

Swiss Aniline Colours.

J. R. GEIGY, S.A.,
Basle - Switzerland
are makers of

ACID REDS, YELLOWS and ORANGES
METHYLENE BLUES
NIGROSINES. TANNIC ACID

Agents for Leicester District:
E. H. BUTLER & SON, LEICESTER.

CELLONITE COMPANY, DREYFUS & COMPANY, BASLE.

Works at Basle (Switzerland) & Belfort (France).

CELLULOSE ACETATES "DREYFUS"

ACETIC ANHYDRIDE. TRIACETINE, CAMPHOR SUBSTITUTES.

Joint Agents for United Kingdom of Great Britain and Colonies:

HUGO LORENZ, 7/8 Idol Lane, London, E.C. AND HARRY HEYMANN, 5 Union Street, Bradford.

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL

Re-education of the Intestine.
Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.

Price 5/- per box.

GLOBÉOL

Powerful Blood Tonic.
Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.

Price 5/- per bottle.

PAGÉOL

Powerful Urinary Antiseptic.
Gonorrhœa, Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, Hypertrophy of the Prostate, etc. etc.

Price 5/- and 11/- per box.

JUBOLITOIRES

Scientific Suppositories.
Hæmorrhoids, Rectitis, Anal Fistula, etc.
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

URODONAL

Powerful Uric Acid Solvent.
Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.
Price 5/- and 12/- per bottle.

VAMIANINE

New Scientific Preparation for Syphilis, Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price 11/- per bottle.

GYRALDOSE

Antiseptic for local Gynæcological use.
Leucorrhœa, Metritis, Salpingo-Ovaritis, Discharges, etc.

Price 4/- per box.

FANDORINE

Internal remedy for Women's diseases, Metrorrhagia, Dysmenorrhœa, Irregularities, Pregnancy, Lactation, Pains, etc. etc.
Price 5/- and 11/- per bottle.

SINUBÉRASE

Remedy for Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Infectious Diseases, Skin Eruptions, etc. etc.
Price 5/- per bottle.

FILUDINE

Specific for the Liver.
Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

Price 11/- per bottle.

Heppells

BRITISH AND COLONIAL AGENTS—
Foreign Chemists, 164 PICCADILLY, LONDON, W.
Stocked by all Wholesalers. Now being largely advertised.

QUININE & QUININE SALTS

Quality and Colour Unsurpassed.

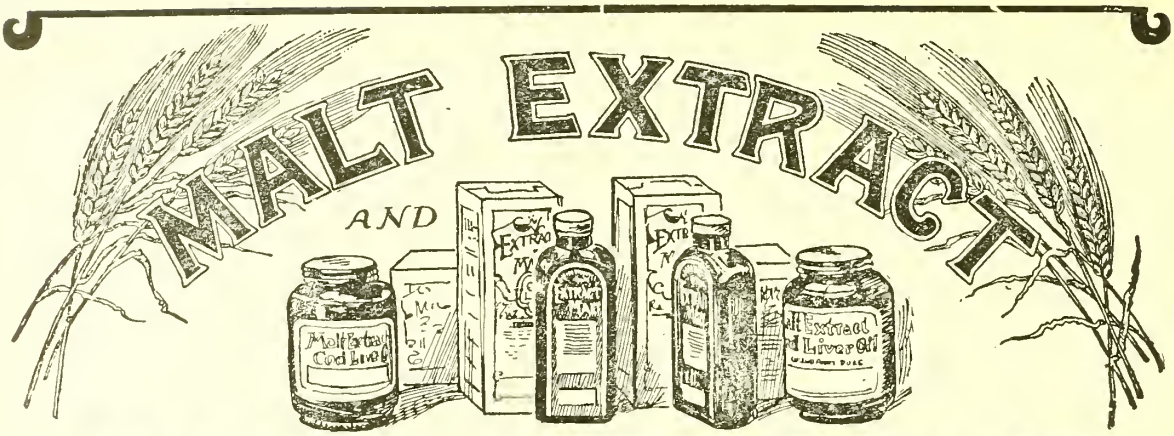
Sugar-coated Quinine Tablets.
Sugar & Silver-coated Quinine Pills.
Gelatine-coated Oval Quinine Pills.

CINCHONIDINE -
CINCHONINE - -
QUINIDINE - -
} & SALTS

SAMPLES AND PRICES ON APPLICATION.

BANDOENG QUININE FACTORIES { BANDOENG, JAVA / AMSTERDAM, Keizersgracht 173.

Telegrams: "Kininefabriek Bandoeng"; "Schalkwyk Amsterdam."



MALT & COD LIVER OIL

Prepared only from the finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

TELEPHONES: Nitshill—Pollokshaws 14. London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

TELEGRAMS: "Perryope, Nitshill." "Perryope, Led, London."

Department 7, NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.

'PHONE: WILLESDEN 1177.

S. TOLKOWSKY,

57 St. Gabriel's Rd., CRICKLEWOOD, LONDON, N.W.

(London Representative of I. L. Goldberg, Russia.)

INQUIRIES SOLICITED FOR

Russian Crude Drugs.

Wormseed (Semen Contra)	Carbonate of Potash	Cantharides
Hyoscyamus Leaves	Calamus Root	Salianski Isinglass
Herba Rorellæ (Sundew Herb)	Boletus Cervinus	Blood Albumine
Lycopodium	Gum Galbanum	Musk Cabardine
Aniseed	,, Ammoniac	Coriander Oil
Ergot of Rye	,, Tragacanth	Anise Oil
Liquorice Root	Frangula Bark	

Flores Cyanæ (Cornflowers) Soap Root

STOCKS IN LONDON.

T.&H. SMITH LTD

MANUFACTURERS

OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS

ALOIN

SALICIN
STRYCHNINE
CANTHARIDIN
PODOPHYLLIN

CAFFEINE
EMETINE
CHLOROFORM
JALAP RESIN

THEOBROMINE
CAPSICIN
GINGERIN
SCAMMONY RESIN

Blandfield Works, EDINBURGH.

22 City Road, LONDON.

37 Washington Street, GLASGOW.

SANTONINE
PURE CRYSTALS

Exclusive Exporter from Russia to the whole world:

I. L. GOLDBERG (Petrograd, Moscow, Wilna, Odessa)

London Representative:

S. TOLKOWSKY, 57 St. Gabriel's Rd., Cricklewood, London, N.W.

(Telephone: Willesden 1177).

Authorised Agents:

France: STRASS & SASSÉ, 54 Quai de Jemappes, Paris.
Italy: FRENCH & COTTA, 19 Via S. Vittore al Teatro, Milan.
India: A. P. C. TOLKOWSKY, Dadina Buildings, 107/109 Dhunji St., Bombay.
Japan: L. POISNER, Kawaguchi No. 4, Osaka.
U.S.A.: B. PRESMAN, 39 West 91st Street, New York.

STOCKS IN LONDON, PARIS, MILAN, BOMBAY, OSAKA, & NEW YORK.

COURTIN & WARNER

Chemicals, Drugs
& Essential Oils,

**8 HARP LANE,
LONDON, E.C.**

Agents for J. MERO & BOYVEAU Crasse.

ALL INQUIRIES BY POST or 'PHONE RECEIVE OUR OWN PERSONAL ATTENTION.

Telephone : Avenue 2220.
Telegrams { "Accourtiwa, Bilgate, London."

Stock

ACETANILID P.B.
ACID TANNIC
CARMINE
CAMPHOR
CITRIC ACID
HEXAMINE
LITHIA CARB.
SANTONINE
SALICYLATES
QUININE

COUMARIN
MENTHOL
OTTO of ROSES
SUGAR of MILK
VANILLIN
etc. etc.

ESSENTIAL OILS of
ANISEED
BERGAMOT
CINNAMON LEAF
CLOVES, English
EUCALYPTUS P.B.
LEMON
LEMONGRASS
MUSTARD SEED
PEPPERMINT
ENGLISH
AMERICAN
JAPANESE
SASSAFRAS
WINTERGREEN
etc. etc.

BECKER, SHILLAN & CO.,

40 EASTCHEAP, E.C.

IMPORT & EXPORT MERCHANTS.

CHEMICALS,

PHARMACEUTICAL
AND TECHNICAL

DRUGS, OILS.

SALICYLATES
TARTARIC ACID
CREAM OF TARTAR
ADEPS LANAE
MAG. SULPH.
BROMIDES
CITRIC ACID
ORRIS ROOT
OLIVE OIL
HONEY

Tele.: Aven. 5333.
" 5334.
Telegrams: "Beckdietz."

And at 15 STANLEY STREET, LIVERPOOL.

GENTIAN

Whole Roots
Fresh & Dry.

GENTIAN POWDER

GIGNOUX FRÈRES & CO.,
Dealers, Growers,
DÉCINES, près Lyon,
France.

McKESSON & ROBBINS

McK&R

ESTABLISHED 1833

91 FULTON STREET - NEW YORK, U.S.A.

OFFER

HYDRASTIS
OIL OF PEPPERMINT
BALSAM PERU
SENEGA
OIL OF WINTERGREEN
BALSAM COPAIBA

All other American Drugs and Chemicals.

FOREIGN DISTRIBUTORS FOR

NEW YORK QUININE & CHEMICAL WORKS, LTD.

MAKERS OF

Quinine, Morphine, Codeine, Acetanilide, etc.

THE **SEASON** FOR

Anti-Parasitic Powder
Antiseptic Foot Powder
Anti-Thirst Tablets

IS NOW ON

Write for Prices. We can offer advantageous prices for these lines.

SHOWCARDS SUPPLIED.

DUNCAN, FLOCKHART & CO.

EDINBURGH & LONDON, 155 Farringdon Road, E.C.

Monsanto Chemical Works,
ST. LOUIS, MISSOURI, U.S.A.

Manufacturers of

ACETANILID.

ACETPHENETIDIN (PHENACETIN). **CAFFEINE** (Pure Alkaloid).

CHLORAL HYDRATE. **COUMARIN.**

GLYCEROPHOSPHATE OF CALCIUM.

Glycerophosphate of Sodium
Pure Crystals.

Glycerophosphate of Sodium
Pure Crystals Powdered.

GLYCEROPHOSPHATE of SODIUM 75%
Glycerophosphate of Potassium 75%

Also Glycerophosphate of Iron, Manganese, Magnesium.

Phenolphthalein. Saccharin. Vanillin.

New York Branch: Platt and Pearl Streets.

SPECIAL OFFER

LOOFAHS
in 1 gross parcels.

Buy now, before prices are prohibitive through high freights and restricted importation.

1 gross assorted Loofahs 15/-
(Net cash with order. Carriage paid.)

Foreign and Colonial postage 1/- extra.

Parcel consists of
4 dozen each 6″— 8″ and 8″—10″
2 „ 10″—12″ and 12″—14″

THOMAS SWALES,
24 Butts Court, & 89 Albion St.,
LEEDS, ENGLAND.

1844 **THOMAS TYRER & Co. Ltd.** 1916

Sterling Brand
STRATFORD, LONDON, E.

GRAND PRIZE, LONDON, 1909.
GOLD MEDAL, ST. LOUIS, 1904.

Acids, Hydrochloric, Nitric, Phosphoric, Sulphuric,
PURE & TECHNICAL.

CHEMICALS
FOR
HORTICULTURAL
AND
AGRICULTURAL
PURPOSES, &c.

Bismuths, Mercurials, Hypophosphites, Ethers
and all Technical & Special Chemicals.

OUR SOL. 'MAGNESIA BICARB.' CONTAINS NO ARSENIC.

OUR REPUTATION **YOUR** GUARANTEE

FROM ALL SUNDRY DRUG HOUSES.

SEND 1-DOZ. SHOWCASES. MENDIT LTD., BIRMINGHAM.

N.B.—Prices quoted herewith are for preparations according to the New Pharmacopœia, 1914.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below:

N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Fol. Sennæ Tinnev., 1 cwt. @ 10d. lb.; 7 lbs. @ 11d. lb.; English Ground, 56 lbs. @ 1 3½ lb.; 7 lbs. @ 1/4½ lb.
Formaldehyde, 40%, 4 cwt. barrels @ 87/6 cwt.; 7 lbs. @ 1/1 lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 8/3 cwt.; 1 cwt. @ 9/6.

Gallæ Cærul. Pulv., 7 lbs. @ 2/- lb.
Gamboge, English Grouud, 7 lbs. @ 5/6 lb.; 1 lb. @ lb.
Ginger, English Ground, 1 cwt. @ 60/- cwt.; 7 lbs. @ 8d. lh.
Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.
Glycerin, Opt. D.D., 1.260 P.B., 56 lbs. @ cwt.; 12 lbs. @ 1/4 lb.
*Glycerin, Acid. Boric, P.B., 6 lbs. @ 2/1 lb.
* ,, Acid. Carbolic, P.B., 6 lbs. @ 1/10 lb.
* ,, Acid. Tannic, P.B., 6 lbs. @ 2/5 lb.
,, Belladon. B.P.C., 6 lbs. @ 6/6 lb.; 1 lh. @ 7/- lb.
*Glycerin. Boracis, P.B., 6 lbs. @ 1/6 lb.
* ,, Pepsin. Acid, P.B., 1 lb. @ 3/3 lb.
* ,, Plumbi Subacet., P.B., 6 lbs. @ 1/11 lb.
Guaiacol Carb., 1 lb. @ 135/- lb.
Guaiacol, pure, 1 lb. @ 82/- lb.
Gum Acaciæ sorts, 3 cwt. @ 68/- cwt.; 1 cwt. @ 72/6 cwt.; 7 lbs. @ d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/- cwt.; 7 lbs. @ 1/6 lh.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.
Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 1/- lb.
Gum Thus Elect., 2½ cwt. @ 48/- cwt.; 28 lbs. @ 52/- cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 12/ lb.; 1 lb. @ 12/6 lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/3 lb.
Heliotropine, 1 lb. @ 26/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 4/3 lb.; 1 lh. @ 4/8 lb.
Honey, Pale Set, Jamaica, 28 lbs. @ 70/- cwt.; Californian, ½ cwt. @ cwt.; 7 lbs. @ lb.
Hydrargyrum, P.B., 10 lbs. @ 5/9 lb.; 1 lb. @ 6/- lb.; Ammon., 28 lbs. @ 7/11 lb.; c. Creta. 28 lbs. @ 2/6½ lb.; Iodid. Rub. 28 lbs. @ 16/6 lb.; Oxid Ruh., 28 lbs. @ 7/6 lh.; Perchlor., Lump, 28 lbs. @ 7/9 lb.; Subchlor. 28 lbs. @ 7/6 lb.; Sulph. c Sulph., 28 lbs. @ 7/- lb.; 7-lb. quantities 1d. lb. extra. 3-lb. quantities, 2d. lh. extra, 1-lb. quantities, 3d. lb. extra.
Hydrokinone, 1 lb. @ 35/ lb.

Ichthyol Ammon. chemical equivalent: Ammon-Ichthosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lh.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Buchu Conc., 1 to 7, 6 lbs. @ 2/8 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/10 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/3 lb
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/9 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/10 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/7 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/9 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10½ lb.
Iodoform Pulv. B.P., 7 lbs. @ 20/6 lb.; 1 lb. @ 21/- lb.
Iodum, resub. B.P., 7 lbs. @ 18/9 lb.; 1 lb. @ 19/3 lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/8 lb.; sifted, 2/- per lb.

Lapis Pumicis, fine powder, 2 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 18/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, 2-oz. Sticks, 1 cwt. @ 180/- cwt.; 28 lbs. @ 1/8½ lb.; 7 lbs. @ 1/9 lb.
*Lin. Aconiti Meth., 5 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
* ,, Bellad. Meth., 5 lbs. @ 9/- lh.; 1 lb. @ 9/3 lb.
,, Camph. P.B., 40 lbs. @ 1/0½ lb.; 9 lbs. @ 1/1½ lb.
,, Sapo Meth., 9 lbs. @ 1/3 lb.
,, Tereb. Acet., B.P., 5 lbs. @ 1/1 lb.
Linseed c. Oil, Crushed, 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.
*Liq. Ammonii Acetatis Conc. 1–7, 6 lbs. @ 1/4 lb.; 1 lb. @ 1/7 lb.
* ,, Ammon. Aromat., 6 lbs. @ 10d. lb.
* ,, Antim. Chlor. Pure, 8 lbs. @ 10d. lb.
* ,, Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.
* ,, Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Bismuth, P.B., 6 lbs. @ 1/7 lb.
* ,, Copaiba Buchu et Cubeb, 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lh.
* ,, Easton, p.s. 1–3, B.P., 1 lb. @ 3/5 lb.
* ,, Ferri Dialysatus, 6 lbs. @ 1/2 lb.
* ,, Ferri Iod. p.s., 1–7, 1 lb. @ 8/- lb.
* ,, Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.
* ,, Ferri Phosph. Co. p.s., 1–7, 7 lbs. @ 1/7 lb.
* ,, Hamamelidis, B.P., 6 lbs. @ 1/3 lb.
* ,, Hypophosph. Co., p.s., B.P.C., 1 lb. @ 3/10 lb.
* ,, Iodi Fort, B.P., 5 lbs. @ 7/- lb.
* ,, Morphinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 4/2 lb.
* ,, Opii Sed., 5 lbs. @ 6/3 lb.
* ,, Plumbi Subacet., P B., 7 lbs. @ 7d. lb.
* ,, Pruni Virg. p.s. 1–7, 5 lbs. @ 2/9 lb.
* ,, Rhœados pro Syr., 1 to 7, 5 lbs. @ 2/8 lb.
* ,, Rhei, p.s., 1–7, 6 lbs. @ 2/4 lh.
* ,, Santali Co., 1 lb. @ 4/10 lb.
* ,, Sennæ Dulc. 6 lbs. @ 1/8 lh.
* ,, Sennæ pro Syr. 1–7, 6 lbs. @ 3/4 lb.
* ,, Strychninæ Hyd. P.B., 6 lbs. @ 1/11 lb.
* ,, Tolut. pro Syr. 1–7, 6 lbs. @ 1/9 lb.
* ,, Trinitrini, B.P., 1 lb. @ 7/- lb.
Lithia Carh. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.
,, Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 7/9 lb.

Mag. Calc. Levis, 1 lb. @ 2/- lb.
Mag. Calc. Pond., 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.
Mag. Carb. Pond., 7 lbs. @ 11d. lb.
Mag. Carb. Levis., 1 cwt. @ 70/-; 7 lbs. @ 8½d. lb.
Mag. Cit. Gran., 28 lbs. @ 1/5 lb.; 6 lbs. @ 1/6 lb.
Mag. Sulph., fine druggists, B.P., 1 cwt. @ 19/6; 28 lbs. @ 2½d. lb.
Manna, Flake, 14 lbs. @ 5/10 lb.; 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.
Menthol, dry white cryst., 60 lbs. @ 11/4 lb. 5 lbs. @ 12/- lb.
*Mist. Sennæ Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb
Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 14/- oz.; 16 oz. @ 14/3 oz.; 8 oz. @ 14/6 oz.; 1 oz. @ 15/3 oz.; Pur. Præcip. Bimeconate or Tart., 1 oz. @ 19/- oz.
Morphinæ Diacetyl., 4 oz. @ 21/- oz.; 1 oz. @ 21/6 oz.; Hydrochlor., 6d. per oz. less
Myrrh, Gum, English Ground, 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.

Naphthalene, Candles, 7 lbs. @ 7½d. lb.
Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9½d. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/- lh.
Ol. Anethi Ang. B.P., 1 lb. @ 30/- lb.
Ol. Anisi, E.1., 66 lbs. @ 3/8 lb.; 16⅔ lbs. @ 4/- lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lh.
Ol. Aurant., 12 lbs. @ 10/6 lb.; 1 lh. @ 11/- lb.; not guaranteed absolutely pure.
Oil of Bays, genuine W.I., 1 lb. @ 14/6 lb.
Ol. Cajuput., B.P., 2½ oz. bots. @ 4/9 lb.
Ol. Camphor. Essent., White, 40 lbs. @ 8½d. lh.; Brown, 40 lbs. @ 120/- cwt.
Ol. Caryoph. Ang., B.P., 9 lbs. @ 6/4 lb.; 4½ lbs. @ 6/7 lb.
Ol. Cassiæ, 16 lbs. @ 4/6 lb.; 6 lbs. @ 4/9 lb.
Ol. Cinnam., 1 lb. @ 32/- lb.; 1 oz. @ 2/3 oz.
Ol. Citronellæ, 9 lbs @ 2/3 lb.
Ol. Coco Nucis, finest White, 80 lbs. @ 58/6 cwt.; 40 lbs. @ 62/- cwt.
Ol. Eucalypt., P.B., 1 cwt. @ 2/6 lb.; 28 lbs. @ 2/7 lb.; 9 lbs. @ 2/8½ lb.
Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.
Ol. Gynocardiæ, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.
Ol. Juniperi Ligne Exot., 9 lbs. @ 5/3 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 17/- lb.; 1 lb. @ 18/- lb.
Ol. Menth. Pip. English, 5 lbs. @ 36/6 lb.; 1 lh. @ 37/6 lb.; Hotchkiss original bots., 21 oz. each @ 15/9 lb.; 6 bots. @ 15/6 lb.; 18 bots. @ 15/- lb.; American, 20 lbs. @ 11/- lb.; 4½ lbs. @ 11/6 lb.; 1 lb. @ 12/- lb.; Japanese, 60 lbs. @ 4/- lb.; 5 lbs. @ 4/3 lb.
Ol. Morrhuæ, 1915, finest non-freezing, 2-gall. tins @ 20/- per gall.
Ol. Myrbane, 9 lbs. @ 3/- lb.
Ol. Myristicæ, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lh.
Ol. Nucis Pallid., 2 gall. tins @ 7/6 gall.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 5/6 gall.; 2 gall. tins @ 7/- gall.
Ol. Origani Rub., Coml., 28 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.
Ol. Peach Kernel (so-called), 1 cwt. @ 1/5 lb.; 56 lbs. @ 1/6 lb.; 9 lbs. @ 1/7½ lh.
Ol. Pulegii B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10.
Ol. Ricini Alb. Opt. Medicinal, 40 lbs. @ 75/- cwt.; 9 lbs. @ 10d. lb.; for export, 1 cwt. drums recommended.
Ol. Rosmarini, Coml., 28 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.; B.P., 9 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 37/- lb.; 1 lb. @ 37/6 lb.
Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lh. @ 4/5 lb.
Ol. Theobromæ, B.P., 8-oz. tabs., 28 lbs. @ 2/5½ lb.; 7 lbs. @ 2/7 lb.
Ol. Wintergreen, Artificial, 5 lbs. @ 12/- lh.; 1 lb. @ 12/6 lb.
Opium Turc. B.P., 14 lbs. @ lb.; 3 lbs. @ lb.; 1 lb. @ lb.; powder, 6d. lb. extra.

***Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.**

NOTE.—Only terms Net Cash with Order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

WOODWARD'S GRIPE WATER

Two Registered Trade Marks.

No. 99.....

No. 100..... **"GRIPE WATER"**

is intended for the RELIEF of the various SIMPLE and FAMILIAR **Ailments of Infants and Young Children,** especially during the **Period of Teething.**

It contains no Preparation of Morphia, Opium, or other harmful drug.

ON THE PROTECTED PRICE LIST OF THE P.A.T.A.

GOOD! IT'S MASON'S

The Drink for the Masses

Millions of glasses used daily by workers all over the Empire

Please allow us to Sample and Quote—

Citrate Magnesia
Health Salt
Salines
Liver Salt
Blood Salt
Sulph. & Sarsap. Salt
Lemonade Crystals, &c.

NEWBALL & MASON

NOTTINGHAM

NEWTON - MASON'S

HOREHOUND AND LINSEED

LINCTUS.

ESTABLISHED 1868.

THE GREAT CURE FOR BRONCHITIS, COUGHS, ETC.

Best Wholesale & Export Terms on application—

A. E. ROBERTS,

Analytical Chemist,

WEST BROMWICH, ENGLAND.

THE

BRITISH DIAMALT COMPANY

ARE NOW SELLING DIRECT TO CHEMISTS

1. Dry DIAMALT
2. DIAPARAFFIN
3. MALTOLACTON
4. Liquid DIAMALT
5. Liquid DIAMALT (with 15% by weight of Cod Liver Oil).
6. Liquid DIAMALT (with 33% by weight of Cod Liver Oil).

ON P.A.T.A. LIST.

Head Office: BISHOP STORTFORD

Tel. Address: "Pillischer London." *Established 1843.* Telephone: 4418 Gerrard.

J. PILLISCHER, 88 NEW BOND STREET, LONDON, W.

MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND

SOLE MANUFACTURER OF THE CELEBRATED "INALTERABLE" CLINICAL THERMOMETER.

RECENT EXHIBITIONS: 12 GOLD MEDALS—14 GRANDS PRIX.

GAND, 1913, GRAND PRIX; GAND, 1913, HORS CONCOURS.
(French Section) (British Section)

SPUN (Regd. Trade Mark) OINTMENTS

FOR HOME TRADE AND FOR EXPORT.

Are fully covered by warranty "B.P.," or, "to formula.
Are manufactured to suit the climate in which they are to be used.
Are delivered carefully packed in airtight tins, unless unsuitable or otherwise order
Always arrive in good condition.
Are the lowest priced Ointments on the market, and for **QUALITY ARE UNEQUALLED**

GOOD STOCK OF ALL MATERIALS.

ROBERT BLACKIE, *Wholesale Manufacturing Chemist*
SHEN WORKS, TOWER BRIDGE ROAD, LONDON, S.E.

C. MELIN & CO. ESTABLISHED 1865.

7 India Street, Crutched Friars, London, E.C.

supply **GLASS AMPOULES, TUBES and LAMP BLOWN ARTICLES**

OF EVERY DESCRIPTION. PROMPT DELIVERY.

DIRECT FROM THE WORKS. :: WHOLESALE & EXPORT.

JOHN & JAMES WHITE,

7 WEST GEORGE STREET, GLASGOW, SCOTLAND.

Manufacturers of

Bichromates of Potash, Soda & Ammonia

CHROMATE OF SODA.

Also **High Strength Sulphate of Ammonia and Tar.**

AGENTS: YORKSHIRE DISTRICT: E. G. Jepson & Co., Leeds; LANCASHIRE DISTRICT: Tennants (Lancashire) Ltd., Liverpool and Manchester; LONDON DISTRICT: D. W. Greenhough & Son, London; CONTINENT & EXPORT: Leisler, Bock & Co., Glasgow.

It Will Pay to Stock "Carmex"

MOTHERS everywhere are reading the "Carmex" advertisements, now appearing in the leading journals appealing to women.

Are you ready to supply the demand and secure the profits which this publicity is bound to create?

"Carmex" is the New Remedy for Infants' ailments, which, once it has been tried, will sell again on merit alone.

Link up your pharmacy with our advertising by displaying "Carmex" on the counter, in the window or the showcase.

Order a supply of "Carmex" to-day through your usual wholesale house, or direct from us.

P.A.T.A. min. retail, 1/3 - - per doz. 11/-

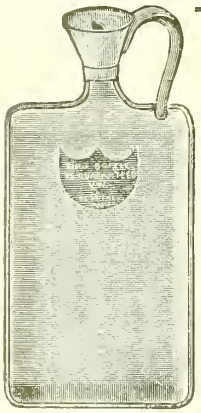
Carmex

Turns Baby's Tears to Smiles

William Browning & Co.,

Manufacturing Chemists, 4 Lambeth Palace Road, London, S.E.

Telephone: Hop. 3217. *Telegrams: "Semprolin, Lamb, London."*



VINCENT WOOD'S

Gold Medal "EUREKA"

Hot Water Bottles and Covers, Lung Protectors, Body Belts,

& SURGICAL APPLIANCES generally.

Order at once, there may be great shortage of materials.

91/93 NEWINGTON CAUSEWAY, S.E.

JOHN LORIMER

119 Finsbury Pavement, London, E.C.

Acid Acetylsalicylic
Silver Proteinate
Silver Nucleinate
Vitagen

ALL BRITISH manufacture.

CHEMISTS!

RETAIL OR WHOLESALE, WE CATER SPECIALLY FOR ALL YOUR PRINTING REQUIREMENTS.

50 YEARS' EXPERIENCE OF

SPECIAL

AND

GENERAL PRINTING

enable us to meet all your demands for

FIRST-CLASS WORK at LOWEST PRICES.

Write us or 'Phone our London Office to call TO-DAY.

ALF. HARRISON & SONS

Printers,

BURLEY ROAD, LEEDS.

London Representatives:

THE L. STANLEY PAPE ADVERTISING SERVICE,

Regent House, Kingsway, W.C. 'Phone: Gerrard 4008

FORD, SHAPLAND & Co

PRINTERS

We have specialised in Chemists' and Druggists' Printing for over 70 years. We have built up and maintained our reputation on quality and despatch. If you want

QUALITY PRINTING

send us your enquiries and we will submit suggestions and quotations. A few of our specialities are Labels, Cartons, Envelopes, Fine Art Show Cards, Dental and Optical Circulars, etc.

Agents for Registration of Trade Marks.

GREAT TURNSTILE, HIGH HOLBORN
LONDON
TEL. 65, CITY. TELEGRAMS: FORSHAPCO WESTCENT, LONDON.

The Best Paying 1d. Line is

SOFTO

FOR CHAPPED HANDS.

WHOLESALE PRICES.

			s.	d.
1 gross "Softo"	with 4 doz. bonus	- - -	6	0
½ gross ,,	,, 1½ doz. ,,	- -	3	0
3 doz. ,,	,, 1 doz. ,,	- - -	1	9

A Chemist writes: "Please send our goods immediately, as the 1 doz. 'Softo' was cleared in a day."

The SOFTO Manufacturing Co.
33 Edgware Road, Park Lane, W.

WHOLESALE ONLY.

Established 1901.

Surgical Dressings, Absorbent Lints, Bandages, Gauzes, &c.

Samples and prices on application.

VERNON & CO., Ltd., Penwortham Mills, PRESTON.
Also 9 Fore Street Avenue, London, E.C.

For FOUNTAIN PENS and all Pens the Best.

Dichroic Ink

Makes Writing Easy

Proprietors:
Bewley & Draper, Ltd., Dublin.

SCHOOL OF PHARMACY
OF THE
PHARMACEUTICAL SOCIETY.

The School provides systematic courses of instruction for the Minor and Major Examinations of the Pharmaceutical Society. Both Courses commence in October, the Minor Course continuing until the end of June 1917.

Arrangements have been made to admit to Special Shorter Courses Students who can satisfy the Dean that they have already received adequate scientific training.

Applications for admission to the School, or for any information respecting it, should be addressed to—

THE DEAN OF THE SCHOOL (Prof. Greenish, F.I.C.), 17 Bloomsbury Square, W.C.

WESTMINSTER COLLEGE.

'PHONE: BRIXTON 1728. *Principals: G. S. V. WILLS, Ph.C. (Founder); P. H. WOODNOTH, M.P.S.*

JULY EXAMINATIONS: Twenty-one Westminster Students passed (Minor 3, Hall 18)

COURSE FOR JANUARY MINOR EXAMINATION commences OCTOBER 4. Fee 8 guineas.
Students desiring extra Practical Analysis can enter at once.

NEXT APOTHECARIES' COURSE commences NOVEMBER 1. Fee 8 guineas.
The fee includes use of apparatus and books.

Since the beginning of 1916 Forty-nine Ladies have qualified as Dispensers from this College.
More Students have passed the Pharmaceutical Examinations from this College than from any other School.

For Prospectus, &c., Call, Write or 'Phone THE SECRETARY, 402 Clapham Road, London, S.W.

Ward & Goldstone
SALFORD MANCHESTER

Write for Lists—(Box 14), Sampson Works, SALFORD, MANCHESTER.
Phone: 7083-6 Central. Tel.: "Multum Manchester."

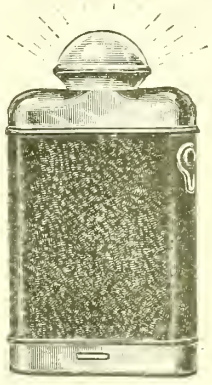
THE "DUCHESS" WAISTCOAT POCKET ELECTRIC LAMP.
Most reliable. Fitted with bull's-eye lens, heavily nickelled caps. Recommended for Export. Complete with Refill and Bulb. Price 30 - doz. net.

POCKET LAMP DRY BATTERIES.
British Manufacture. Made of the finest chemicals and finished by a special process to ensure maximum life. Supplied to H.M. War Office.
"VOLEX REFILL."
Highest grade. Prices on application.

MEDICAL COILS.

Superior finish, with highly polished nickel mounts, powerful coil, complete with handles and regulating tubes (as illustration). No. 4/261. Price 24 9.

Large variety in all qualities.
Net Trade Price from 3/- upwards.

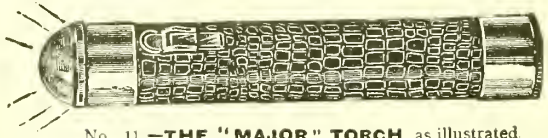


SPECIAL LINE. No. 307. British Made Pocket Lamp Case complete with 1-in. Lens, Battery and Metal Filament Bulb — per doz. 12 9 net.

The following prices are per dozen net, and include reliable Batteries and special Tungswire Metal Filament Bulbs.

Complete with Refills and Best Bulbs. DESCRIPTION.	1¼ lens. No.	1¼ lens. Dz.	1¾ lens. No.	1¾ lens. Dz.
Popular quality, assorted covers, polished fittings ..	310	17/9	903	18/9
Medium quality, leatherette covers, nickelled fittings ..	325	19/9	905	20/9
Superior quality, in best leatherette covering, heavily nickelled	324	26/-	904	28/-
De Luxe quality, real leather covering, and heavily nickelled	423	33/-	S20	37/-

THE "TROPHY" TORCH.
A full-size Torch of Remarkable Value.
No. N21/42, size 9 in. long, complete with 3-cell battery and bulb, 4/- net.
THE "CLIPLITE" TORCH, as above, but 6⅝ in. long. Complete, 3/- net.



No. 11.—**THE "MAJOR" TORCH,** as illustrated.
Size, 9½ × 1½ ins., complete with bulb and battery, 6/3 each net.
Also supplied with real leather covering, De Luxe model, complete, 9/6 each net.
Best quality Refills, 7 × 1¼ ins., 1/6 each net.
No. 41.—**THE "KIT" TORCH.** Similar to above but shorter, to take a 2-cell battery; most portable and convenient; quite reliable for export. Size 7 × 1½ ins., complete, 5/6 each net. Best quality Refills, 4¾ × 1¼ ins., 1/3 each net.
No. 24.—**THE "OFFICER" TORCH.** High-class Inspection Torch, similar to the "Major," but with most powerful reflector and 2½ in. lens.
Size, 10½ × 1½ ins., complete, 7/9 each net.
Best quality Refills, 7 × 1¼ ins., 1/6 each. Spare Bulbs, -/6 each net.

BOROUGH POLYTECHNIC INSTITUTE,
BOROUGH ROAD, LONDON, S.E.

Chemistry Department—Under the direction of C. DORÉE, M.A., D.Sc.

A Special Course of Ten Lectures on "THE CHEMISTRY AND TECHNOLOGY OF THE ESSENTIAL OILS," with Practical Work, will be given by C. T. BENNETT, B.Sc., F.I.C. (Phar. Chem.), on Wednesday Evenings, commencing 27 September, 1916. The classes in Elementary, Advanced and Honours Inorganic and Organic Chemistry commence 25 September, 1916.

Full particulars on application to the Principal, C. T. MILLIS.

CITY of LONDON COLLEGE,
White Street and Ropemaker Street, MOORFIELDS, E.C.

MICHAELMAS TERM commences September 25.

Classes and Laboratory work in **CHEMISTRY.** Special preparation for the Examinations of the PHARMACEUTICAL SOCIETY. Courses on Commercial Products, Metals, Oils, Tea, Textiles.

Full particulars gratis on application to

DAVID SAVAGE, *Secretary.*

Chemists—

You are not satisfied with the *Developing* and *Printing* now being done for you. Let me put your work right. Send me your next spools. I will develop and print from the negatives. Art Velox only used.

SPEEDY RETURN. PERFECT FINISH.
PRICES GLADLY SENT ON REQUEST.

CHATHAM PEXTON,
46 GRAY'S INN ROAD, LONDON, W.C.
Telephone: 11578 Central.

ELECTRIC POCKET LAMPS, TORCHES, HAND LAMPS, &c.

OUR NEW LIST
is now ready. We have
MANY NEW PATTERNS IN POCKET LAMP CASES

BUT you should order these early. The best lines are sure to be all sold in a month or two. **Remember last season!**

ARCHIBALD J. WRIGHT, LTD.,
Manufacturing Electricians,
61 Eden Grove, Holloway, London, N.

CHEMISTS' SHOPFITTINGS

WANTED.—Every Chemist requiring Shopfittings to send for my estimate; you *can't* do better. I shall be pleased to send you rough sketches free on receipt of particulars. Over 30 years' experience.

Glass Showcases, Drugfittings, Dispensing Screens, Window Enclosures, Glass Shelves, Wall Cases, Perfume Cases, Plate Glass Front Counters, Drawers, &c., at lowest prices.

NOTE ADDRESS—
GEORGE COOK,
The Chemists' Working Shopfitter,
29 MACCLESFIELD STREET, CITY RD., LONDON, E.C.

BOOKS for PHARMACISTS

HOW TO MAKE SHOWCARDS.—A practical treatise on the fundamental principles of artistic lettering with pen and brush for the use of retail merchants and their clerks, by Charles A. Miller. Fully illustrated with diagrams, alphabets, sample signs, &c. One of the most complete, most practical and most useful books on the subject published. Second edition, 134 pages. Price 4*s.*; with THE SPATULA 1 year, 8*s.*

SPATULA HERB BOOK.—A classified list of Medicinal Herbs, giving botanic names and common names, with properties of each. A concise and practically complete list. Arranged alphabetically under both the scientific and the common names so that any herb may be instantly found. Price 2*s.*; with THE SPATULA 1 year, 6*s.*

EXTRACTS AND PERFUMES.—A treatise on the most practical methods for the manufacture by the retail or wholesale pharmacist of Flavouring Extracts, Colognes, Toilet Waters, Perfumes, Sachets, Fumigating Pastilles, &c., together with several hundred tested and workable formulas, by Prof. W. L. Scoville and other authorities. Cloth, 4*s.* With THE SPATULA 1 year, 8*s.*

500 SPATULA FORMULAS for the making of Common Remedies, Perfumes, Soaps, Tooth Powders and Washes, Hair Dyes, Cosmetics, Colognes, Liqueurs, Cements, Glues, Mucilages, Blackings, Corn Cures, Rat and Vermin Poisons, Extracts, Fireworks, &c. Price 2*s.*; with THE SPATULA 1 year, 6*s.*

RETAIL ADVERTISING COMPLETE.—By Frank Farrington. Tells you all you want to know about advertising your store. Thoroughly covers the subject. Every kind of advertising discussed. 272 pages bound in cloth. Price 5*s.*; with THE SPATULA 1 year, 8*s.*

STORE MANAGEMENT COMPLETE.—By Frank Farrington. Tells you where to start, how to buy, to arrange your store and stock, to manage clerks, to stop leaks, to treat your competitors, to reduce expenses, to give credit, &c. There are chapters on "Premiums," "What to Sell," and other subjects. 272 pages, bound in cloth. Price 5*s.* With THE SPATULA 1 year, 8*s.*

SPATULA INK FORMULARY.—Recipes and directions for making all kinds of inks for all purposes, by Dr. J. H. Oyster. 172 pages, bound in cloth. Price, post paid, 8*s.*; with THE SPATULA 1 year, 12*s.*

PERFUMES AND COSMETICS. By G. W. Askinson, perfumer. Complete directions for making handkerchief perfumes, smelling salts, sachets, fumigating pastilles, cosmetics, hair dyes and other toilet articles. Complete list of contents free. Price, post paid, 21*s.*; with THE SPATULA, 24*s.*

SCARF PINS WITH MOVING EYES.—Just the thing for clerks and bosses in drug stores as they represent the emblem of poison as used in pharmacies.

This particular pin was designed especially for our subscribers. It is made in both dark German silver finish and in gold plate.

Take your choice. They are so made that the eyes inside the skull oscillate with every movement and show the fire of the stones. They are wonderfully interesting and fascinating, and are sure to please both the wearer and his friends. The price for one is 2*s.*; with THE SPATULA 1 year, 6*s.* State which kind you want.

HENLEY'S RECIPES, FORMULAS AND PROCESSES.—Contains over 10,000 Selected Scientific, Chemical, Technological and Practical Recipes and Processes, including hundreds of so-called Trade Secrets for every business. Full table of contents free. 800 large 6 × 9½ inch pages. Price, post paid, cloth, 12*s.* 6*d.*; with THE SPATULA 1 year, 15*s.* 6*d.*

SUCCESSFUL RETAIL ADVERTISING.—Designed exclusively to teach the retail merchant every phase of this subject. Nearly 500 pages; illustrated. Cloth. Price, post paid, 8*s.* 6*d.*; with THE SPATULA 1 year, 12*s.*

FREE.—We will send to any Chemist and Druggist in any part of the world, sending us 5d. in postage stamps, a sample copy of THE SPATULA, one of the handsomest and most practical drug journals published, full of American vim and push, a 16-page illustrated catalogue of pharmaceutical books and a large picture in colours of the Spatula Soda-Water Girl.

(Cheques on local Banks in Great Britain accepted.)
Make Post Office Money Orders payable to
IRVING P. FOX, Treasurer.

The SPATULA, 14 Sudbury Building, Boston, Mass.

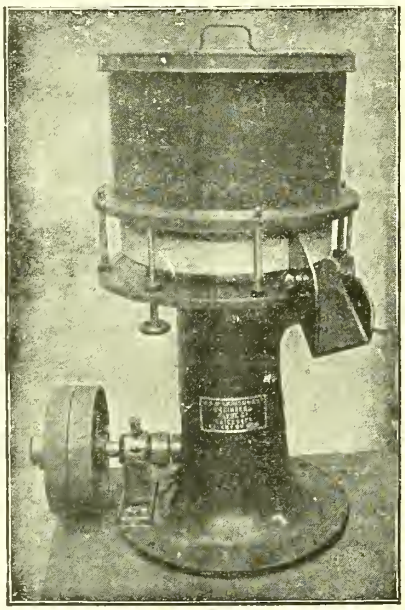
TABLET MACHINERY

In 7 different sizes.

Great improvements have recently been made in these machines, by which the output has been largely increased.

The strongest, simplest and most efficient Tablet Machines on the market.

GELATINE CAPSULE MACHINES for Hand or Power, for producing both types of Capsules filled with either liquid, paste or powder.



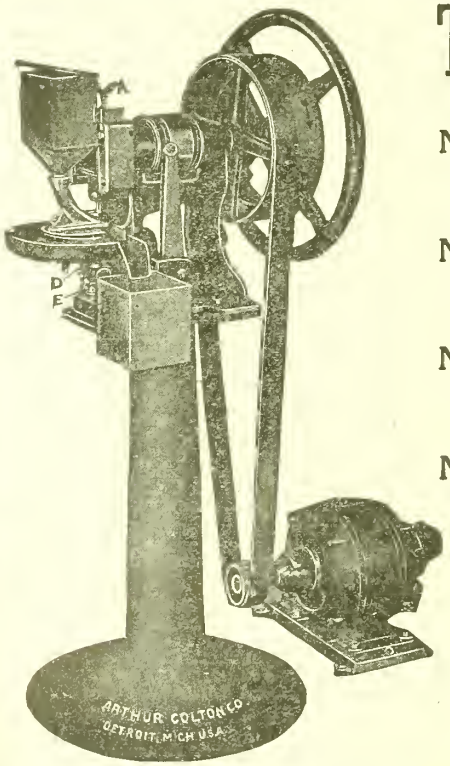
The famous "SPEEDY" Ointment Mill.

GELATINE PILL-COATING MACHINE.

EMULSIFIERS and all kinds of PHARMACEUTICAL MACHINERY.

S. W. WILKINSON & CO., PHARMACEUTICAL ENGINEERS.

Little Holme Street, LEICESTER.



TABLET MACHINES

No. 2B MACHINE for tablets $\frac{1}{8}$ in. to $\frac{1}{2}$ in. diameter, including 3 sets of punches and dies.
(This machine has a capacity of 125 tablets per minute.)

No. 3B MACHINE for tablets $\frac{7}{32}$ in. to $\frac{5}{8}$ in. diameter, including 3 sets of punches and dies.
(This machine has a capacity of 100 tablets per minute.)

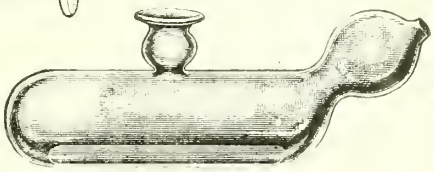
No. 4 MACHINE for tablets $\frac{1}{2}$ in. to $\frac{3}{4}$ in. diameter, including 1 set of punches and die.
A massive machine of great power. (Capacity 90 tablets per minute.)

No. 5 MACHINE for tablets up to 2 in. diameter, including 1 set of punches and die.
A still heavier machine than No. 4. (Capacity 50 tablets per minute.)

Complete Pill Making Plants.
Gelatine Coaters.
Collapsible Tube Filling and Closing Machines.

JOHN J. GRIFFIN & SONS, LTD.,
Kingsway, London, W.C.

ALSO T.K. DROPPING BOTTLES, ½ oz. & 1 oz. sizes, in flint and amber.



LARGE STOCKS OF MALE SYRINGES, ⅓ oz., 1 oz. and 2 oz. sizes.
STOCKS OF NASAL DOUCHES.
STOCKS OF VIALS, LIMES, TOBINS, &c.

JULES LANG & SON, CHARLTON WORKS, CHARLTON PLACE, **ISLINGTON, N.**

Telephone: NORTH 1344 (2 lines). Telegrams: "ASSORTED, NORDO, LONDON."

E. YOULDON, LTD.

MANUFACTURERS OF

GLASS BOTTLES

TREBY ST. (late Carter St.),
Maplin St., Mile End, London, E.

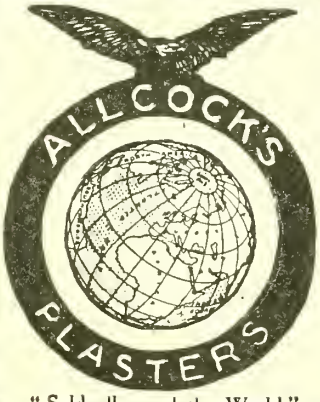
ESTABLISHED 1840. Telegrams: "YOULDON, BOWBUR, LONDON." Telephone: EAST 132.

ESTABLISHED 1847.

Allcock's PLASTERS

REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
The Three Reliables.



Prices and Terms on application to
ALLCOCK MANUFACTURING COMPANY
22 Hamilton Sq., Birkenhead.

"Sold all round the World."

THE
LIVERPOOL LINT Co.

MARK STREET MILLS,
NETHERFIELD ROAD NORTH,
LIVERPOOL,
MANUFACTURERS OF

LINTS,
BANDAGES,
COTTON WOOLS,
SURGEONS' TOW,
CARBOLIZED TOW,
SPLINT PADDING,
WADDINGS, &c. &c.

As supplied to Home and Foreign Governments.

"IMPERMIETTE" (Waterproof).
"IMPERMIETTE" BED SHEETING.
"HEALTH" CHEST PROTECTORS.
"VULNOPLAST."

ABSORBENT TISSUE

FIRST FIELD DRESSINGS

Telegrams: "LINT LIVERPOOL"

HARVEY'S
GREAT REMEDIES FOR THE HORSE
WITH THE ADDED REMEDIES.
(Protected Prices.)

HARVEY'S ACONITE POWDERS.
For Chronic Cough, Broken Wind, Roaring, &c.
HARVEY'S WORM AND CONDITION POWDERS.
HARVEY'S WATTS' EMBROCATION, or Curb Bottle.
HARVEY'S WATTS' RED LOTION.
For Wounds.
HARVEY'S HAIR RESTORING OINTMENT.
HARVEY'S EDOS, or Tasteless Purging Powder.

THE ADDED REMEDIES:
HARVEY'S KOPPOS POWDER,
For Lymphangitis, or Weed, and Inflammations generally. In Tins, 5/- and 10/- each.
HARVEY'S THRUSH SPECIFIC.
In Tins 1/9 and 3/- each.
HARVEY'S HOOF OINTMENT.
In Tins, 3/- and 6/- each.
Also
HARVEY'S HAIR RESTORER (HUMAN).
A successful modification of the Veterinary Preparation. In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.
HARVEY & COMPANY, LTD., DUBLIN.

"RODINE" REG^D
THE RAPID RAT REMOVER

MAKES
GOOD RATS
GIVES
GOOD RESULTS
AND A
GOOD PROFIT

A DEAD RAT IS A GOOD RAT.
Mr. J. SCOTT, Ingatestone, Essex, writes: "I found 433 dead rats after using 'Rodine' Rat Poison, and gained First Prize at the Blackmore Rat and Sparrow Club."

Mr COLVILLE, Espley Hall, Morpeth, writes: "'Rodine' cleared us of Thousands of Rats. Previous to using 'Rodine' as many as 4 dozen tubes of Virus were used at a time without any appreciable effect."

Mr. REITH, Chemist, Cults, writes: "I back 'Rodine' against all comers, Virus included, as it gives to the seller and user the best visible results."

Push the satisfactory Rat Poison.
Get it direct, on best terms.

HARLEY, MANUFACTURING CHEMIST, PERTH, SCOTLAND.
Export Agents: Tozer, Kemsley & Fisher, Ltd., 84 Fenchurch Street, London, E.C.

IMPORTANT.
COCAINE
AND OPIUM
REGULATIONS
Clause "E" of the above requires a Special Register to be kept recording the ingredients of the Prescription and name and address of the person to whom it is sold or delivered. Keep your record exact by using
WILKINSON'S
SPECIAL REGISTER
FOR THE PURPOSE,
WITH INTRODUCTION AND COPIOUS EXTRACTS FROM THE ACT.
Contains 50 pages, and 3 pages for recording the purchase of Cocaine.
PRICE 1/9 POST FREE.
ORDER IT NOW FROM
JAMES F. WILKINSON,
MEDICAL LABEL PRINTER,
PENDLETON, MANCHESTER.

HAVE YOU RECEIVED OUR
NEW CATALOGUE
Of BOTTLING, TUBE- & TIN-FILLING MACHINES, MIXERS, EMULSIFIERS, ETC.
Up-to-date Plant at Low prices.
Something to meet every need.
WRITE—
ROBERTS' PATENT FILLING MACHINE CO.,
33 ROUNDCROFT STREET, BOLTON, ENGLAND.

A DAMP DUSTER
is all that is needed to restore the pristine beauty and polish of any
SEMREH
BOTTLE CAP
that has become soiled.
Semreh Caps give no trouble in fitting — or afterwards.
THE VISCOSE DEVELOPMENT CO., Ld.
BROMLEY, KENT.

Contractors to the War Office, India Office, &c

ZONDO High Co-efficient Fluids. 120,000 Gallons supplied to H.M. War Office in 1915

SIZOLIN Cheap & Powerful Disinfectant, Milky Fluid. Largely exported to the Colonies, S. America, &c.

ZONDO-SAPONIS. Strong Soap Fluid Cleanser Disinfectant

MANUFACTURERS TO THE TRADE at LOWEST PRICES OBTAINABLE.

Standardised Disinfectants Co., Ltd., Billiter Buildings, London, E.C.

CABLES: "ADDOOM LONDON," A B C CODE. WORKS: LIMEHOUSE, LONDON, & LEICESTER, ENG.

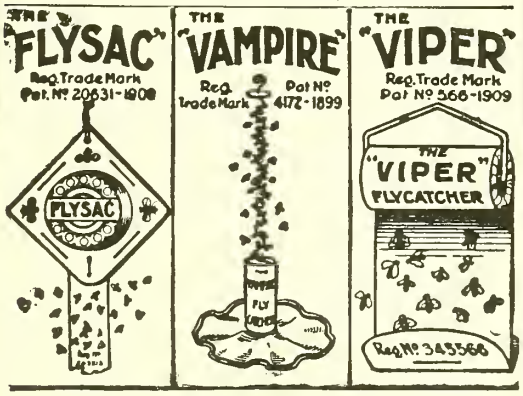
LYSOL The German Disinfectant has been replaced with universal satisfaction by

ZONZOL.

CARBOLINUM The German Wood Preservative is superseded satisfactorily by

BRUNOLINUM

REAL FLYCATCHERS!



Prompt Deliveries! Big Profits! Quick Returns!

NO EXPERIMENT, BUT A PROVED SUCCESS.

WELL MADE AND WELL ADVERTISED.

Send for Samples. They bear out our claims.

SOLE MAKERS AND PATENTEES:

KAY BROTHERS, Ltd., Stockport.

Nat. Tel. 247. Telegrams: "KAY STOCKPORT." (1)

(30 years' experience in the manufacture of Birdlimes and Flygums.)

The Best of all Fly Catchers

TUNBRIDGE & WRIGHT'S

Fly Cemetery

The original and best of all Sticky Fly Papers, **6/-** per gross net, carriage paid. Cash with order.

TUNBRIDGE & WRIGHT'S

Cemetery Fly Tape

Very neat, simple, and efficacious, **7/6** per gross net, carriage paid. Two gross lots and up **7/-** per gross, carriage paid. Cash with order.

TUNBRIDGE & WRIGHT'S

Cemetery Fly Band

The neatest; simplest, and cleanest of all band catchers. Packed in boxes containing three dozen. **8/-** per gross net, carriage paid. Cash with order.

TUNBRIDGE · & · WRIGHT

READING

London Depot—*46 FARRINGDON STREET, E.C.*

N. of England—*4 Gallowgate, NEWCASTLE-ON-TYNE.*

Telegrams: "FLIES READING." Telephone: 496 Reading.

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK.
Lightest and Whitest, also Purest Dense.
APPLY TO
AUG. LEVERMORE & CO. Ltd., 8-10 Gt. St. Helens, LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

TOBACCOS! CIGARS! CIGARETTES!
Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied Opening orders a Speciality. Send for Price List.
SINGLETON & COLE, LTD., Cannon Street, BIRMINGHAM AND BRANCHES.

DISINFECTANTS
OF ALL KINDS
Cheapest Makers of Co-efficient Acids and Fluids
HENRY ELLISON, LTD., CLECKHEATON, YORKS

MIRRORS. MANICURES. HAIR BRUSHES.
WRITE FOR PARTICULARS TO
THE GALEN MANUFG. CO., LTD.
Wilson Street, New Cross, London, S.E.

CACHETS "PELTOT"
ALL SIZES 2/6 per 1000 PLAIN OR EMBOSSED
Carriage Paid on orders of 5000. Write for Samples.
Sole Agent CICERO S. CLARK, Pharmacie Française, 12 Richmond Rd. WESTBOURNE GROVE, LONDON, W.

CACHETS "FINOT"
(White or Coloured),
With inscriptions in any desired tint; also Plain or Embossed.
"Beautifully made, and the inscriptions give them a distinction all their own."—*C. & D.*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In Ten Sizes. Also supplied to fit existing machines.

JOHN E. RAWORTH
CHARTERED PATENT AGENT,
PATENTS, TRADE MARKS AND DESIGNS.
THE OLD MANSION HOUSE, 73 Cheapside, E.C. and QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

British-made
ANILINE DYES
FOR FOOD STUFFS, ETC.
Lowest Prices for Egg Yellow, etc.
J. & T. HOYLE & CO.,
312 Deansgate, Manchester.

TEETH
Highest Quality Porcelain Sample set of 28 Diatorics 2/6. Tough, Enduring Pins. Set of 6 Pin Teeth 1/6
EASTERN DENTAL MFG. CO. Ld., East Molesey, Surrey

RADIUM BATH SALT
RADIUM DENTIFRICE
RADIUM TONIC PILLS
RADIUM BATH LOTION
RADIUM HAIR TONIC
RADIUM SALT CO. LTD., 21 Farringdon Ave., LONDON, E.C.
RA-BA-SA

GOOD LINES FOR CHEMISTS.
HONEYS in ¼ lbs., ½ lbs., and 1 lbs.
LEMON CURD (made with pure butter), in 12 oz., 6 oz., and 3 oz.
BE SWAX, 48, 32, 16, 8, and 2 to the lb. (avoirdupois).
A. GORDON ROWE, 28a Moy Rd., CARDIFF.
Price Lists on Application.

SURGICAL RUBBER & VULCANITE Goods of every description.
Douche Fittings, Douche Tubing, Syringes, Teats, &c.
HIGGIN, Ltd. 265 DEANSGATE, Manchester.

BAKING POWDERS.
Particulars of how cheapened, and how quality maintained, on application to
WALFORD & CO. LTD., Collyhurst, MANCHESTER.
Specialists also in Dry Flavours for Custard Powders, etc., and Pure Colours for Food-stuffs.

LE BRASSEUR SURGICAL MANUFACTURING CO., Ld.
John Bright St., BIRMINGHAM, ENGLAND.
The Largest Manufacturers and Cheapest House for Surgical Rubber Goods, Rubber Urinals, Enemas, Spray Syringes, Suspensory Bandages, Soluble Quinine Pessaries, and Rubber Goods of every Description. *PRICE LIST ON APPLICATION.*
WORKS: PASSY-PARIS, FRANCE.
Registered Telegraphic Addresses: "Surgical Birmingham," "Ardeshir Paris."

Van Horn and Sawtell
—LONDON AND NEW YORK— MAKERS OF
"K-Y" LUBRICATING JELLY
IN COLLAPSIBLE TUBES AND OF
"Van Horn" Sterile Sutures and Ligatures
IN GLASS TUBES — PRICES ON APPLICATION
81-83 HIGH HOLBORN, W.C.

SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

TRIAL BOTTLES 6d. siz , supplied on pretty showcards.

4/6 doz.; 1/- size, 10/- doz.: 3/6 size 30/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

SHAVING STICKS

6d. "THE FLAG," Cartoned, 3/- doz.. 33/- gross.
6d. "CREAM OF ROSES," Decorated Tin in four colours, Rose design on Cream ground, 4/- doz., 45/- gross.
1/- ALUMINIUM HOLDER, 7/6 doz. and bonus 2.
Sample of each for stamps 1/3.

C. A. STOKES & CO. Ltd., 31/35 Lower Castle Street, BRISTOL.

FORMALDEHYDE 40%
LACTIC ACID.

WHOLESALE. FOR SPOT DELIVERY

Harry Heymann, 5 Union Street, **Bradford.**

INVESTIGATE

The Py-Shan Points Co-operative Sales plan—we think it will interest you. It has a regular weekly sale, gives 5d. per lb., profit, and sales are confined to chemists. Just a card for particulars now to

CHRISTYS, OLD SWAN LANE, E.C.

GLASS BOTTLES & GLASSWARE

OF ALL DESCRIPTIONS.

Buyers in India, Australia, and the Far East should send samples —— (two of each) and quantities required for quotations to ——

J. L. THOMPSON & CO., P.O. Box 22, KOBE, JAPAN.

Cable Address: "FRANKLIN KOBE."

FULLY ILLUSTRATED CATALOGUE OF SURGICAL INSTRUMENTS SENT POST FREE ON APPLICATION.

HOT WATER BOTTLES.

BRITISH MAKE.

THE "EMPIRE" BRAND

FIG. 957.—Side Handle.

Made in Two Weights, but One Quality only—the Best.

GUARANTEED FOR 2 YEARS.

Top, or side handle	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Heavy weight	each	3 2	3 5	3 8	3 11	4 3	4 10	5 2	5 9
Light ,, ...	,,	3 0	3 3	3 6	3 9	4 0	4 6	4 9	5 3
Covers, scarlet or grey plush	,,	0 9	0 9	0 11	0 11	1 1	1 3	1 5	1 7

N.B.—The metal collar in both heavy and light Bottles is **vulcanised into the rubber neck,** thus making it practically one solid piece and doing away with all possibility of leakage.

5 % discount allowed for prompt cash off above prices. Carriage paid on Orders of **£2** and upwards to any town in the United Kingdom.

We are the right House for British-made Goods, Anti-Rheumatic Rings, Catheters, Enemas, Elastic Hosiery, Hot Water Bottles, Injection Syringes, Pessaries (Quinine, &c.), Sponge Bags, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE. ***OUR GOODS ARE RIGHT.***
MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

POTTER'S ASTHMA CURE
For The Relief of Asthma Hay Fever Bronchitis & Diseases of the Respiratory Apparatus
PRICE ONE SHILLING

1/- TINS (P.A.T.A. 1/-)

9 6 DOZ. NET.

POTTER'S Asthma Cure

ADVERTISED EVERYWHERE

GIVES INSTANT RELIEF

POTTER'S ASTHMA SMOKING MIXTURE.
Composed entirely of Herbs carefully compounded and prepared ready for smoking either mixed with ordinary Tobacco or by itself. It may also be used in Cigarette form
PRICE 6D PER TIN

POTTER'S ASTHMA CIGARETTES
For the Relief of Asthma Hay Fever Bronchitis and Diseases of the Respiratory Apparatus

6D TINS (P.A.T.A 6D)
4/6 DOZ. NETT

POTTER'S TRAMONIUM + + + + + CIGARETTES

1/- BOXES (P.A.T.A. 1/-)
9/6 DOZ. NET.

1/ BOXES (P.A.T.A. 10½d.)
7/-DOZ. NET.

POTTER & CLARKE LTD.
60-64 Artillery Lane
LONDON · E

AND AT
24 LUNA STREET, GREAT ANCOATS, MANCHESTER.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, SEPTEMBER 23, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

This is what Advertisers in The Chemist and Druggist Supplement secure. Not indefinite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—PARK LANE (Within Easy Distance of).—Dispensing and Retail Business; returns between £1,100 and £1,200 per annum; *gross profit over* £650 (proof given); for a prompt transfer vendor is willing to make some sacrifice.

2.—GOLDER'S GREEN (Near).—Retail and Dispensing; very profitable middle-class Business; returns £1,500; will bear the fullest investigation; modern-fitted shop, with residence; terms valuation and small premium for lease and goodwill.

3.—EALING (Within Easy Distance of).—For Disposal, through death, Cash Retail Business; well situated; comfortable residence; rent £32; capital opening for a man with small capital; about £100 required to purchase.

4.—LONDON, N.W. (Death Vacancy).—Good-class Business; no immediate opposition; returns £1,000 yearly; *net profit* £300; modern, well-fitted shop; price £750.

5.—LONDON, S.E.—Middle-class Retail and Dispensing Business; no N.H.I.; returns £900; *net profit* £249; comfortable residence; moderate rental; price £275 on entry and balance, £175, by instalments; full investigation courted.

6.—LONDON, S.W.—Retail and Dispensing Business, situate in a good-class locality; established many years; profits good, fully up to the average; handsome, well-appointed shop, and good stock; vendor retiring; valuation terms entertained.

7.—WEST MIDDLESEX (Attractive Locality).—Retail and Dispensing; returns £600; *net profit* £200; easy rental; premiums held on lease; a pushing man with about £200 at command will find this a good investment.

8.—MIDLANDS (Fashionable Town).—Dispensing and Retail; all good middle-class trading; returns upwards of £3,000 yearly; vendor would entertain a partnership with a view to the incomer taking up the whole within a given period.

9.—SUSSEX (High-class Watering-place; Death Vacancy).—Dispensing and Retail Business, including Optical; returns between £1,400 and £1,500, present rate less; *profits above the average of Retail trade*; about £1,000 required.

10.—SURREY (Few Miles Out).—Good-class Retail and Dispensing Business; returns about £1,100; *net profit between* £250 *and* £300; good position, near Railway Station; price about £700.

11.—HUNTS.—Unopposed Business; returns £825; *good profits*; comfortable residence, with bathroom and offices, flower and kitchen gardens; rent £25; price £400.

12.—WALES (Seaport).—Retail and Dispensing, together with Wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept the value of stock and fixtures.

13.—HANTS.—Very old-established Business, Retail and Dispensing; returns about £850; *net profit* over £250; exceptionally good residence, with garden and outbuilding; no opposition; price £400.

14.—SUSSEX.—Retail and Dispensing Business, of good class; village in midst of glorious country; returns about £850, at good prices, and increasing steadily; comfortable residence, with private entrance; nicely fitted and well stocked; further details on application.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER

Pharmaceutical Chemist,

TRADE VALUER AND TRANSFER AGENT.

Recommended by British Drug Houses, Ltd.: Meggeson & Co.: Barclay & Son.
Tel. No.: FINCHLEY 812.

Valuer to the Association of Manufacturing Chemists, Ltd.

VALUATIONS, ESTIMATIONS, EXAMINATIONS, AND FULL REPORTS, Town or Country, on moderate Terms.

No charge whatever to vendors or purchasers except by agreement.

Personal Attention to every detail. | 40 years' Valuation experience.

CORRESPONDENCE INVITED.

1 MOUNTFIELD RD., CHURCH END, FINCHLEY, N.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,
45a MARKET STREET, MANCHESTER.
Established over Half a Century.
Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

85 Jewry Street, Fenchurch Street, City.

Telephone: 1809 Central.

NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business, with scope for large increase; commanding position; low rent; elegant fittings and good stock; owner retiring through old age; valuation only required, £700 to £800; fine opportunity for a smart Pharmacist; personally inspected and recommended.

2.—BANKS OF THAMES (Death Vacancy).—Good-class Chemist's Business, with Optics; returns last year over £1,850; good profits; attractive, well-fitted shop, fine position, and fully stocked; scope for increase; price about £1,000, bare valuation.

3.—KENT.—Light profitable Retail, returning £700 under manager; good profits; scope for increase; no opposition; modern-fitted shop; good house; price £300, half can remain.

4.—CARDIFF.—Good middle-class Cash Retail; returns £1,400; net profit about £375; large house, garden, etc.; heavily stocked shop; price simply valuation, about £800.

5.—SUSSEX COAST.—Well-established Light Retail, Dispensing, and Prescribing Business in rising seaside resort; returns about £650; good profits; splendid house; attractive Pharmacy; price only £250; worth attention.

6.—NORTH LONDON.—Good middle-class Retail; pleasantly situated; returns £850; attractive shop; good stock; price £300 or valuation; personally inspected and recommended.

7.—LONDON, N.W.—Good-class Family Retail, no Photo or Optics; same hands many years, retiring; returns about £1,150; good profits; splendid stock; pleasant locality; price £700.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A SUBSTANTIAL AND PROFITABLE

LIGHT RETAIL CASH BUSINESS FOR SALE

IN A LARGE TOWN IN LANCASHIRE.

Excellent returns. Chartered Accountants' figures.

This business is strongly recommended by the Proprietor, who established it 28 years ago and is now retiring. Cash required about **£1,300.** Full particulars furnished on receipt of Bankers' references.—Address "H.," c/o Messrs Jas. Woolley, Sons & Co., Ltd Victoria Bridge, Manchester.

BLACKPOOL Chemist's Business for Sale, owing to bad health; rent £50, annual tenancy; lock-up shop, room above inclusive; Family Dispensing and Photo trade; no reasonable offer refused; valuation of stock and fittings will be acceptable; returns incoming, 1 year (1915), £745. Apply, "A. B. C.," c/o Messrs. Evans Sons Lescher & Webb, Ltd., Liverpool.

SOUTH COAST.—For immediate Sale, a good business in busy street; returns between £700 and £800; plenty of scope; only reason for disposal owner joining the Army; price £300, near offer considered. Apply, Griffiths, Oak Farm, Cooksbridge, Sussex.

SOUTH MIDLANDS.—Unique opportunity; first-class Country Retail Business for Disposal, in most desirable locality, and producing a clear net income of over £850 per annum; excellent residence; modern, up-to-date Pharmacy; books properly kept; thorough introduction given; only genuine buyers able to command between £2,000 and £3,000 need apply; references required. Apply, "Unique" (194/2), Office of this Paper.

SOUTH-WESTERN County.—Old-established business in pleasant country town; sound; fullest investigation courted; exceptional opening for Dentistry; good garden; owner desiring to go North for health reasons will endeavour to meet cash purchaser, or would consider exchange of businesses; Coast area entertained. "Northerner," 30 Adelaide Road, West Ealing.

WEST End.—Handsomely fitted Pharmacy in capital position; open nearly twelve months; has shown steady growth from the start and has exceptionally good prospects; long lease at low rental; must be sold; satisfactory reasons; price value of stock and fittings or near offer. "K.," 22 Blandford Road, Bedford Park, W.

WEST RIDING, Yorkshire.—Large town, 150,000 population; large Retail Business; two shops; increasing turnover; central positions; excellent profit; health only reason. Apply, J. B. Lapish, Pearl Chambers, East Parade, Leeds.

CHEMIST'S Business for Sale in Liverpool district; populous neighbourhood; turnover £760 per annum; good living accommodation; an excellent opportunity to secure a sound business; reason for sale, ill-health; rent £36 per annum. Full particulars from Parkin S. Booth, F.A.A., Accountant to the Association of Manufacturing Chemists, Ltd., 2 Bixteth Street, Liverpool, and 32 Kimberley House, Holborn Viaduct, London, E.C.

DISPOSAL, Lincolnshire, near Coast, a neglected Village Business, purely Drug; would suit middle-aged man wishing a quiet life and certain income; low rent; cause, age and infirmity. Particulars, "T." (182/31), Office of this Paper.

EXCEPTIONAL opportunity to acquire an old-established Chemist's Business in busy district of Manchester, through death of owner; carried on by him for upwards of 40 years; well-known Specialities and Recipes included; good living accommodation and low rental; immediate possession. For further particulars apply, Mellors, Basden & Mellors, Chartered Accountants, Nottingham.

FAMILY Retail and Prescribing Business; within 36 miles of London; main road; no opposition; well-stocked shop; returns £800, increasing rapidly each year, and under qualified man could do over £1,000; well populated, surrounded by Munition Works and Foundries; low rent; convenient house; price £500. Apply, 188/8, Office of this Paper.

OLD-ESTABLISHED, good-class Family Chemist's Business in busy watering-place in Devonshire; proprietor serving in the Army; excellent and well-fitted shop; good house; moderate rental. For immediate sale. Apply, 80/10, Office of this Paper.

SPLENDID opening for Chemist in suburb of large town in Yorkshire; no other Chemist in district; shop and good house, rent £30 a year; occupation at once. Apply, 193/17, Office of this Paper.

UNOPPOSED Country Retail, South-East Midlands; returns over £800, at good prices; same hands over 40 years; nice shop, well fitted and stocked; exceptionally good house; warehouses and garden; rent £25; price about £400. 194/9, Office of this Paper.

£50 DOWN.—Owner of neglected Country Retail, only recently acquired, and capable of good profitable turnover, being unable to give necessary attention, will dispose at great sacrifice to suitable man; handsome, well-fitted shop, small stock; house and garden attached; price only £100, or near cash offer. 190/901, Office of this Paper.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BELFAST and ULSTER.—Druggist, connection Chemists, Dentists, Hairdressers, Fancy Dealers, desires commission, Toilets, Medical, Specialities, Hair, Teeth, Face, Manufacturers; secure live Salesman. Apply, 191/16, Office of this Paper.

JAVA.—Advertiser, after some twenty years' successful independent working in Java, Pharmaceutical trade, fully cognisant of the requirements of the Tropics, shall be pleased to learn whether your interests would be benefited by appointing a Representative for Netherlands Indies in Holland and Soerabaja; Banking Account: Hong-Kong and Shanghai Banking Corporation, Soerabaja. Apply, "Pharmacia," Purchasing House for Netherlands Indies, Amersfoort, Holland.

AGENCIES required, Proprietary and Sundry, for Wholesale Chemist's Sundry house with first-class connection in Ireland. 193/40, Office of this Paper.

ESTABLISHED Australian House trading with Australasia and the Far East is open to accept the Sole Agency and Representation of first-class Manufacturers of Fancy Soaps, Toilet Novelties, Essential Oils, Perfumery, etc.; would be prepared to consider applications from young progressive firm. Apply, 181/26, Office of this Paper.

FOR SALE.

FOR Sale, complete Shop Fittings, Counters, Cases, etc., glass fronts, Mirror Backs, and Glass Shelves, Recess Label Shop Rounds, Carboys; cheap to clear. 192/15, Office of this Paper.

STOCK and Fittings, including Drugs, Patents, Bottles, Plate-glass Shelves, etc., of a small Chemist's shop; going cheap for cash. James, 37 Vestry Road, Camberwell, S.E.

TWO Gardiner's Sifters and Mixers (C. make), for hand or power; one Bentall's Hand Grinding Mill, 8-inch Hopper. Hemmings, Chemists' Stock Buyers, 2 Scylla Road, Peckham, S.E.

WHAT Offers?—3 oz. Phenacetin, 1 lb. Phenazone, 2 lb. Bism. Carb., 2 oz. Morph. HCl., 6 lb. Sodii Salicyl., 7 lb. Pot. Brom., 3,000 Aspirin Tabs., grs. 5, 4 lb. Am. Brom., 8 oz. Quin. Sulph. Apply, 191/2, Office of this Paper.

1 CWT. Lump Alum, 10*s*.; 25-lb. tin Best Pyrethrum Powder @ 2*s*. 9*d*. per lb.; 75 oz. Quinine @ 2*s*. 6*d*. per oz.; Cask of Bird Lime, 40*s*. per cwt. Extirmo, Ltd., Hull.

BUSINESSES WANTED.

WANTED, small Chemist's Business; Sussex preferred; town or country. Please state full particulars, "Secundus" (192/25), Office of this Paper.

LEGAL.

FOR SALE.

By Order of the Controller appointed by the Board of Trade, P. BEIERSDORF & CO., 7 & 8 IDOL LANE, LONDON, E.C. TRADING WITH THE ENEMY AMENDMENT ACT, 1916.

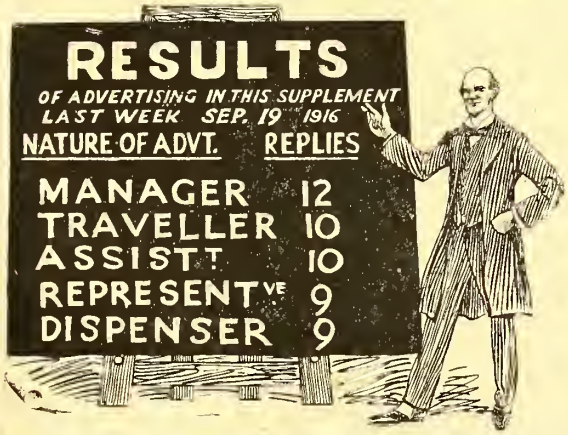
MEDICATED Soaps, Medicated Plasters and Ointments, Court Plasters, Clove Oil, Oil of Aniseed, Vanillin, Precipitated Chalk, Old Metal and Tins and Jars.

Prices and lists on application to Controller, P. Beiersdorf & Co., 7 & 8 Idol Lane, London, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**



This Blackboard demonstrates that Advertisers using these columns get a really response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

ABERDEEN.—Qualified Assistant (lady or gentleman) wanted about middle of October, to Manage Branch. Full particulars to Joseph Milne, M.P.S., 33 Rosemount Viaduct, Aberdeen.

BATH.—Unqualified Assistant for Drug Department at once; no Sunday duty; high-class Dispensing and Counter work; short hours; comfortable berth. State salary, etc., to Cater, Stoffell & Fortt, Ltd., Bath.

BATH.—Unqualified Assistant (ineligible or over military age) required in good-class Branch establishment; morning and evening duties only, or easy hours arranged. Apply, with usual particulars, to "Chemist," 25 Wellsway, Bath.

BRIGHTON.—Wanted, an Assistant (outdoors), with good Dispensing experience; ineligible. Apply, with full particulars and salary required, to J. Miller, 4 Victoria Road, Brighton.

CARDIFF.—Assistant, accustomed to good-class business; short hours; no Sunday duty; weekly half-holiday; permanency to suitable applicant. Full particulars first letter, please, Hicks & Co., Cardiff.

CHELTENHAM.—Assistant for Dispensing business. Apply, with full particulars, Thomas Bros., Montpelier, Cheltenham.

DERBY.—Locum (lady or gentleman). Dates and salary (outdoors), to Churchill, 225 St. Thomas' Road, Derby.

DURHAM County Asylum.—Wanted, a qualified lady Dispenser, and to assist with Clerical work; the appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909; salary £40 per annum, with board, lodging, and laundry. Applications, in writing, to be addressed the Medical Superintendent, Winterton, Ferryhill.

EASTBOURNE.—Gould & Co. require Junior Assistant (male or female); outdoors; accustomed to good-class Dispensing business. Apply, stating salary required and usual particulars.

FOLKESTONE.—Assistant wanted for high-class Dispensing business; qualified or unqualified, or an Improver. Apply, with full particulars, Stainer, Pharmaceutical Chemist, Folkestone.

GORLESTON-ON-SEA.—Qualified Assistance required at once; easy berth and hours; would suit elderly gentleman; comfortable home. Apply, with full particulars as to salary and references, to P. R. Hill, 90 High Street, Gorleston-on-Sea.

KENT.—Wanted, Junior Assistant, outdoors, unqualified, gentleman or lady (with Counter experience), for a Light Retail and Dispensing business; short hours; Wednesday half-day. Apply, stating age, height, experience, and salary required, to "H. J." (192/3), Office of this Paper.

LEEDS.—Qualified Assistant wanted end of October, ineligible for Army, to take charge of important Dispensing and Retail Department. Apply, with full particulars, to Chas. F. Thackray, Great George Street, Leeds.

LONDON, N.W.—An Assistant wanted in a good-class Retail and Dispensing business; time for study if required. Apply, with full particulars, "Chemicus" (191/11), Office of this Paper.

LONDON, S.E.—Assistant wanted (outdoors) for quick Cash business; close Thursday 1 o'clock; no Sunday duty. State experience and salary required, Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

LONDON, W.—Wanted, Junior Assistant; outdoors. Apply, with full particulars, to Harrington, 15 Kensington High Street, W.

LONDON, W.—Wanted, capable Assistant; ineligible; one with knowledge of French preferred. Full particulars to 191/35, Office of this Paper.

LONDON, W.—Competent Assistant required immediately; one with West-End experience preferred. Apply personally, or by letter, to J. Munro & Co., 273 Regent Street.

LONDON, WEST.—Wanted, elderly qualified man, or one wishing to take it easy; hours 10 to 2 and 3 to 7 o'clock, or other hours could be arranged; comfortable and permanent berth. State age, experience, when disengaged, salary required, to 192/28, Office of this Paper.

MANCHESTER.—Unqualified Assistant for middle of October; must have Dispensing experience and be ineligible; short hours and no Sunday duty. State age, experience, and salary required to 192/7, Office of this Paper.

MANCHESTER.—Mottershead & Co., 7 Exchange Street, require an unqualified Assistant for the Retail Counter; must be accustomed to a good-class business; no Sunday duty. State age, experience, and salary expected (outdoors).

PRESTON, Lancs.—Unqualified Assistant, age about 42-46, required for modern quick Cash business; must have had some experience in Photographic and Optic, particularly Fitting; permanency. State salary required, 190/40, Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

ROSS-ON-WYE.—Reliable Assistant, mainly for Dispensing; in or outdoors. Hart, Ph.C., Ross-on-Wye.

SOUTHEND-ON-SEA.—Competent, reliable Assistant, ineligible for Army, for Dispensing and Counter; permanency; can occupy furnished rooms above premises, if married no accommodation for children; full particulars, interview preferred; Manager kept. Mr. Holloway, Pharmacist, Southend-on-Sea.

SOUTHERN COUNTY.—Junior Assistant or Improver for country business; easy hours; half-holiday Wednesdays; no Sunday duty. Also qualified Assistant for Dispensing; ineligible military service. Please give full particulars, references, and salary required, Langham, Chemist, Downton, Wilts.

SUNDERLAND.—Wanted, Branch Manager; qualified and ineligible; either sex; references from two last employers as to character and reliability. State wages required and when at liberty to Milburn's Ltd., 95 & 97 Northumberland Street, Newcastle-on-Tyne.

TAMWORTH.—Junior Assistant; ineligible; smart, and used to brisk Counter trade and Photographic; outdoors; easy hours; give full particulars and photo if possible; required end of September; every consideration to suitable man. Lands, Chemists, Tamworth.

TORQUAY.—Assistant required immediately for high-class Dispensing business. Apply, with full particulars, W. B. Douglas, 1 Victoria Parade, Torquay.

UPTON PARK.—Lady Dispenser wanted, used to Counter work preferably. Apply personally, or if by letter please send photo, Guests, Cash Chemists, Upton Park, E.

WANTAGE, Berks.—Assistant wanted at once, ineligible for military service, or a lady, for Country Retail and Doctor's Dispensing. Apply, with full particulars, to Clegg & Son, Chemists, Wantage.

WARRINGTON Amalgamated Friendly Societies' Medical Association.—Wanted, Lady Dispenser, with not less than three years' experience. Apply, stating salary and experience, to Wm. Bibby, 13 Arpley Street, Warrington.

A LADY or gentleman, qualified, for Light Retail and Dispensing; would suit lady wishing for Counter experience, or elderly gentleman; South Coast. 193/20, Office of this Paper.

A LADY Assistant wanted, with good knowledge of Dispensing; outdoors; comfortable home found if desired. Shields & Warren, Chemists, St. Albans.

ASSISTANT; unqualified; outdoors; with good Dispensing experience and accustomed to Stockkeeping; no Sunday duty. State salary, S. P. Sayers, 7 Brent Street, Hendon.

ASSISTANT (unqualified), thoroughly capable, male or female, required, with good experience of first-class Retail trade; permanency; good prospects. State age, commencing wages required, and full particulars of previous appointments, to Manager, Junior Army and Navy Stores, Aldershot.

CAPABLE Third Assistant, outdoors (ineligible), wanted for old-established West-End Dispensing business. Apply by letter, giving full particulars, to "X. Y. Z.," c/o British Drug Houses, Ltd., Graham Street, City Road.

COMPETENT Assistant required for good-class Dispensing business. State salary and full particulars to 188/38, Office of this Paper.

COMPETENT Assistant required for high-class business. State full particulars to Nathl. Smith & Co., High Street, Cheltenham.

DISPENSER and Bookkeeper required; married man, to reside at Surgery, working-class suburb; wife to act as Housekeeper. Write, "Doctor," c/o W. A. Jennings, 152 Kentish Town Road, N.W.

ELDERLY qualified gentleman or lady to assist in small business; comfortable home (indoors); no Sunday duty; half-day off. Apply, stating salary required and full particulars as to experience work, 192/10, Office of this Paper.

ELDERLY Pharmacist as Assistant (indoors) in small country Retail; light duties; easy hours; must be abstainer. Apply, stating salary required, giving references and usual particulars, 194/900, Office of this Paper.

EVENINGS from 6 to 9, Saturdays 10.—Assistant (male) required on Mondays, Tuesdays, Fridays, and Saturdays, and alternate Sunday evenings, for N.H.I. Dispensing and quick Counter trade. J. Brooks, Pharmacist, 8 High Street North, East Ham, E.

JUNIOR Assistant, unqualified, or young lady with some knowledge of Dispensing, for quick Retail business, with N.H.I.; reasonable hours; experience to be gained. Give particulars, age, experience, salary, etc., in first letter, T. Strode, 88 Askew Road, Shepherd's Bush, W.

METROPOLITAN BOROUGHS OF HACKNEY AND STOKE NEWINGTON.

Tuberculosis Dispensary at Metropolitan Hospital, Kingsland Road, N.E.

LADY Clerk-Dispenser, with some knowledge of Shorthand and Typewriting, required immediately; salary commencing at £78 per annum; applications for part-time employment might be considered.

Particulars of duties may be obtained from and applications should be forwarded to

J. COURTNEY BUCHANAN,
Secretary and House Governor.

MANAGER, unqualified, for small Branch; speaking French preferred; West End; hours 9 till 9; half-day; no Sunday duty. Reply, with terms, to 192/5, Office of this Paper.

MANAGER wanted by October 30 for small market town; good-class Retail, Dispensing, and Photographic business; must be good Counterman and Prescriber and understand the Agricultural side. Apply, with full particulars as to salary and experience, to Holme, Chemist, Wallingford, Berks. Applicants not answered in three days declined.

QUALIFIED Assistant wanted at once. State particulars to Newtons, The Pharmacy, 1 Shaw Road, Royton, near Oldham.

QUALIFIED Manager required for modern business; must be good Counterman and Dispenser; every inducement offered to a first-class man; vacancy in the provinces. 190/402, Office of this Paper.

QUALIFIED Manager required for old-established Chemist's business, with a view to purchase on easy terms; populous district; unique opportunity. Apply, "Executor," c/o Birchall's Advertising Agency, Liverpool.

REQUIRED at once, capable Assistant (ineligible for Army) for good-class Store business; accustomed to take charge; must be good Counterman and Window-dresser. Apply, with full particulars as to age, references, and salary required, to Taylors (Northern), Ltd., Crown Street, Halifax.

SMART, reliable Assistant, Window-dresser, capable taking charge occasionally; reasonable hours; comfortable permanency to right man; Light Retail and Dispensing; two others kept; state salary and send photo if possible (which will be returned); references required. Massey, 83 Bradshawgate, Bolton.

THE services wanted of a retired qualified Chemist for a few hours once a month; the work is purely nominal, but the applicant must not be otherwise engaged. Letters only to E. H. Gibson, Meadow S.L. Co., "Staincliffe," New Oxted, Surrey.

TWO unqualified men required for N.H.I. and Counter; special time for students or improvers; good wages and one whole day off weekly. Apply, with full particulars, to S. Briggs, 29 St. James Street, Walthamstow.

UNQUALIFIED Assistant required for a progressive business in the provinces; permanency, with good prospects; must bear a good character and be a competent Counterman and Dispenser. "U." (190/401), Office of this Paper.

WANTED, for a South Country Retail, a lady Assistant, principally for Dispensing N.I., etc. State salary required, experience, etc., to 191/39, Office of this Paper.

WANTED, a lady Assistant for Dispensing and Counter duties. Apply, J. T. Sunman & Son, Chemists, 43 Wellington Street, Luton, Beds.

WANTED, a gentlemanly Assistant; good Dispenser; outdoors. Apply, W. F. Pasmore, 320 Regent Street, London, W.

WANTED, elderly qualified Assistant; hours from 11 till 8 p.m., two hours allowed for meals; Thursdays 11 till 1 p.m. only; salary £2 10s. per week. Also Junior for Counter (ineligible), or young lady liberally treated. Apply, with full particulars, to Messrs. Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E.

WANTED, Dispenser for morning and evening Surgery. Apply, stating age, experience, qualification, and salary required, to Dr. A. D. Lewis, 15 Stamford Hill, London, N.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule

ASSISTANT required in Analytical Laboratory; good preliminary Chemical training necessary, and some practical experience an advantage; one studying for Institute of Chemistry examinations preferred, lady or gentleman. Apply, stating full particulars and salary required, to Harrison & Self, 57 Chancery Lane, W.C.

COST Accountant required for Drug and Chemical Works; must be thoroughly acquainted with modern costing and stock-recording systems and be ineligible for Army. Apply, giving full particulars of experience and salary required, to Box No. 147, Smiths' Advertising Agency, Ltd., 100 Fleet Street, E.C.

LADY wanted, South Coast, smart business woman, to make Galenicals, Toilet Preparations, etc., able to supervise packing and workroom. State experience, age, when disengaged, full particulars, to Simpson, 135 Queen's Road, Brighton.

OLDFIELD, PATTINSON & CO., New Bridge Street, Manchester, require three Drug and Invoice Clerks, two Assistants for Wet Counter, one Assistant for Dry Counter, two for Receiving Returns, and one to take charge of the Bottle Stock Room; must be ineligible for military service. Apply, with full particulars in first letter.

REPRESENTATIVE wanted, to call upon Chemists, Drug Stores, etc., in the London district; must be ineligible for military service. Write full particulars of age, experience (if any), and salary required to 191/22, Office of this Paper.

TRAVELLER, already calling upon Chemists, to carry the Claxton Patent Ear-Cap (for correcting outstanding ears in children); good commission on new business. Address, Castle Laboratory, Jeffreys Place, London, N.W.

TRAVELLER with connection amongst Chemists in South West England and Wales to Represent Perfumery and Toilet House. Apply, fully, 83/15, Office of this Paper.

WANTED, a Post Parcel Despatch Clerk (ineligible). Apply, stating experience and wages required, R. Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

WANTED, men with practical experience for Making Custard Powder and Grocers' Sundries generally, to work under Foreman in large Wholesale House in London. State full particulars as to experience, salary, etc., "A.B.C." (77/24), Office of this Paper.

WANTED at once, by Doctor, experienced Dispenser, Book-keeper, and Surgery Assistant; outdoors; woman over 30 preferred. Apply, stating salary required and all particulars, to "S.," 26 Leicester Road, Loughborough.

WANTED for a large Wholesale Drug and Patent Medicine business in the North of England, a thoroughly competent Head Invoice Clerk; ineligible; one used to a similar position preferred. Apply, stating salary required, qualifications, and references, to "N. G. R." (71/57), Office of this Paper.

WHOLESALE.—Required, experienced man or youth, ineligible for Army, to put up Doctors' orders. Apply, giving recent references, age, and wages required, Wharram, Ltd., 115 Vicar Lane, Leeds.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

CALCUTTA.—Qualified Assistant, free from military service, for large European House; 4 years' agreement; salary 275 rupees a month, second year 300 rupees per month, third year 325 rupees per month, fourth year 350 rupees per month; second-class passage paid out and home; good opportunity for a smart man. Apply, "G. K.," Evans Sons Lescher & Webb, Ltd., 50 Bartholomew Close, E.C.

NAIROBI, British East Africa.—Qualified Assistant required; exempt from military service; young man who has passed his Minor about three years; agreement for three years; salary £20, £25, and £30 per month respectively; passage paid out and home. Apply "G. K.," Evans Sons Lescher & Webb, Ltd., 50 Bartholomew Close, E.C.

SHANGHAI.—Qualified Assistant required in old-established high-class English House; ineligible for military service; English-speaking Belgian would be considered; liberal terms and conditions. Full particulars to "Shanghai" c/o Street's, Cornhill, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
RETAIL.

GETTING RESULTS BOTH WAYS.

A qualified Assistant (187/11), in sending an advertisement for this section, writes on September 14 as follows: "Also allow me to express my appreciation of the splendid work your paper is doing. I put in an advertisement in November, to which I had 14 replies; also I replied to two advertisements in same and got replies to both."

ASSISTANT, unqualified, excellent references and abilities, Dispensing, Prescribing, Analytical, Bacteriological, Dental, and Optics, desires post abroad; any part. Apply, 189/25, Office of this Paper.

ASSISTANT; unqualified; good Dispensing and Counter experience; reliable; passed for sedentary work. State full particulars to Roberts, 33 Sansome Walk, Worcester.

ASSISTANT; competent; 5 years present berth; age 50; active; Photography (practical); married; permanency. Apply, Dispenser, 5 West Terrace, Richmond, Yorkshire.

ASSISTANT; qualified; elderly; good-class experience; easy hours; outdoors; London. 193/14, Office of this Paper.

ASSISTANT, unqualified, 25, ineligible, 5 ft. 10 in., good appearance; 8 years' first-class Dispensing and Store experience, desires comfortable and progressive situation. Apply, 192/16, Office of this Paper.

ASSISTANT (21), with good London Dispensing experience; ineligible; tall; easy hours; outdoors; reliable; good references; London district. E. Mason, 38 High Street, Huntingdon.

COMPETENT Dispenser; general organiser and tactful Salesman. Forster, 54 Romilly Road, Finsbury Park, N.

DISENGAGED; age 28; married; exempted; reliable; trustworthy; undeniable references; used to good-class Dispensing businesses. "Statim," 47 Lismore Road, Hampstead, N.W.

DISPENSER (lady), Apoth. qualification, 10 years' experience, desires part-time engagement; West London preferred. Apply, 189/28, Office of this Paper.

DISPENSER (lady), well educated, Hospital, Institution, Chemist's, and Insurance Dispensing, but no Counter experience, requires post; speaks French; unqualified. Apply, 193/12, Office of this Paper.

DISPENSER (lady), Hall certificate, excellent references, desires post Institutional Hospital or private work; London preferred; free October 2nd. 194/5, Office of this Paper.

DISPENSING, Manufacture, Travel, Manage Branch; experience City, West-End, Hospital, Pharmacy, Laboratory, Institution; ineligible. "R.A.M.C.," 1 Reginald Road, High Street, Deptford, S.E.

DISPENSER-BOOKKEEPER (lady), Hall qualification, desires post with Doctor or Institute; London S.E. district preferred; free October. 48 Shooter's Hill Road, Blackheath.

EVENINGS; qualified; Dispensing and Counter; disengaged. Apply, "Senior," 49 Wandsworth Bridge Road, S.W.

EVENINGS.—Few evenings a week required; experienced Counter and Dispensing; any district; unqualified. J. A. P., c/o 13 Coombs Street, Islington, N.

LADY Dispenser, experienced, requires post, in or near London preferred, or Locum. Apply, 191/9, Office of this Paper.

LADY Dispenser; Hall certificate; good testimonials; disengaged; widow; age 28. G. Stevenson, 15 Northanger Road, Streatham, S.W.

LADY Dispenser (Hall certificate), two years' experience with a Doctor, desires berth; Bristol preferred. Apply, Marley, Cartref, Minehead.

LADY Dispenser (Hall certificate) desires post with Doctor, Hospital or Institution in London or its suburbs. Miss K. Deighton, 63 Wickham Road, Brockley, London, S.E.

LADY requires position as Dispenser with Doctor or Pharmacy; experienced; good references. Apply, 190/37, Office of this Paper.

LADY (Minor) requires afternoon or evening post. Chave, "Flat," 154 Charing Cross Road, W.C.

LADY Dispenser (Hall), experienced, wishes afternoon post; London, accessible from Euston district. Write 193/19, Office of this Paper.

LADY Dispenser (Hall qualification) desires post, Doctor or Institution; London preferred; free October 30th. "B. M.," 43 Commercial Road, London, E.

LOCUM or Branch Manager; qualified; experienced, London and provinces; disengaged October 9. "Sterisol" (191/8), Office of this Paper.

LOCUM (Hall qualification); disengaged; age 48; good, clean appearance; good experience; abstainer. "S.," 22 Deacon Street, Swindon.

LOCUM, Manager; qualified; good experience and references. Thomas, 84 Clarendon Road, Southsea.

LOCUM; qualified; 34; experienced; disengaged (awaiting Naval Group call). "A.," 70 Clancarty Road, Fulham.

M.P.S.—MANAGER or Locum; disengaged; excellent credentials. Apply, 194/6, Office of this Paper.

MANAGER; temporary or permanent; free end of October; 49; qualified; first-class experience and references. 192/6, Office of this Paper.

MANAGER Assistant or Locum; energetic; with exceptionally sound experience in conducting a business; London or near; abstainer; unqualified. "A." (192/1), Office of this Paper.

MANAGER or Assistant; 45; experienced Counterman and Dispenser; outdoors. 191/37, Office of this Paper.

MANAGER, Locum or Traveller; qualified; experienced in all branches; disengaged October 23; two years in present employment. Peacock, Chemist, Ossett, Yorks.

MANAGER or Senior; ineligible; age 38; exceptional experience; for duration of war or otherwise. Pharmacist, 23 Maldon Road, Acton.

MANAGER; qualified; 42; disengaged; state salary and hours; Photography, Store experience or high-class Pharmacy, good experience of each. 193/6, Office of this Paper.

NOTTINGHAM (or Near).—Over miltary age; unqualified; seven years present; 50s. weekly. 192/36, Office of this Paper.

PHARMACIST, qualified, over military age, seeks position as Senior or Manager; first-class experience. 189/23, Office of this Paper.

QUALIFIED; over military age; large experience; Management or Locum; disengaged. "Ajax" (187/10), Office of this Paper.

QUALIFIED Manager (44) desires engagement; in or near Leeds preferred; Prescribing, Photography, Extracting, and Optical; references. Apply, 191/7, Office of this Paper.

QUALIFIED, varied experience, tall, aged 40, married, good references, seeks responsible post, or one with good prospects. "Test," Tom Davies, Pharmacist, Caerphilly.

QUALIFIED; disengaged; Dispensing only; experienced; exempt. "Statim," 27 Elm Lodge Avenue, Reading.

REPRESENTATIVE, Wholesale Drug Trade or Allied.—Advertiser seeks post; thoroughly conversant with all branches of Retail; capable Salesman; good appearance and address, with first-class credentials; ineligible for Army, rejected four times; correspondence invited. 193/2, Office of this Paper.

QUALIFIED lady Dispenser-Bookkeeper desires post with Doctor; splendid experience and refereuces. Apply, 191/1, Office of this Paper.

QUALIFIED Manager; 29; progressive; first-class experience; could buy; abstainer; exempt; genuine permanency only. Full particulars, "Ajax," 139 Highbarn, Royton, Oldham.

QUALIFIED; 49; married; permanency. 192/152, Office of this Paper.

SATURDAYS, several evenings; highest Dispensing experience. "Permanency," 50 Woodside Park Road, N.

STATIM; 29; all-round experience; capable taking charge; reliable. "Locum," "Normanhurst," Heston Road, Hounslow, Middlesex.

YOUNG lady requires situation in Bath; nine months' experience in Dispensing and N.H.I.; well up in Counter work, Packing Specialities, Window-dressing, etc. Apply, full particulars, to Miss W. E. Phillips, 44 Ryelands Road, Leominster.

YOUNG lady, experienced, qualified (Hall), desires post: Doctor or Hospital preferred. Apply, 189/37, Office of this Paper.

£2 2s. indoors (£3 3s. out); excellent references; every experience; definitely ineligible; 31; tall; Locum or permanency; Notts or Coast preferred; disengaged in two weeks. "Davids," c/o Mr. Hall, Chemist, Skegness.

55s., Locum or permanency; experienced Manager; excellent references; ineligible; disengaged three weeks. "Chemicus," 100 Great Clewes Street, Manchester.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ADVERTISER, holding small Agency, desires to Represent first-class Drug or Sundry house in London, or take up Agency for Pharmaceutical Proprietary preparations; own office, showroom, and warehouse. 190/8, Office of this Paper.

ADVERTISER would like situation in Wholesale; middle-aged; qualified; all experience in Retail, but would like change. 192/151, Office of this Paper.

LADY (Apothecaries' Hall), with good Wholesale, Dispensing, and Bookkeeping experience, requires permanency as Manageress of small, well-organised concern in or near London. Address, 192/26, Office of this Paper.

MINOR Man (University Chemistry).—Gentleman, successfully Travelled for great London Drug House, seeks war work of some kind; turned 50, but has energy of 30; just liberated from non-war work. "Scotsman" (194/1), Office of this Paper.

REPRESENTATIVE, ineligible, exceptional experience Calling on Doctors and Chemists, desires berth for duration of war. "Viator," 23 Maldon Road, Acton, W.

TRAVELLER, calling upon London Wholesale Sundries and Surgical Appliance houses, desires another commission; good-class Sundries of any description; advertiser has open accounts with practically all the leading houses. 193/35, Office of this Paper.

WEST OF ENGLAND.—Gentleman covering this ground desires additional Agency for well-known house; part expenses and commission; references; guarantee. Address, "Bristolian" (191/40), Office of this Paper.

MISCELLANEOUS.

COMPLETE Fittings for large-sized Pharmacy (Second-hand); 16-ft. plate-glass Wall Case, 9-ft. bent front Dispensing Screen, 16-ft. Drug Fitting, 14-ft. Sundries Fitting, 4-ft. "All Glass" Counter, 12-ft. glass-fronted Counter, two 4-ft. Nests Counter Drawers, Perfume Case and Desk, Bent-fronted Silent Salesman, 7-ft. plate-glass Counter Case; £150 the lot; worth £450; would sell separately. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. Established 90 years.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

NOW THEN!

We require at once live Buying Agents—Cash terms (wholesale only)—for the finest series of Specialities made. Opening order, **100% Bonus given free.** Range of samples post free for 6d. in stamps to any address. Write at once. Large stocks. Prompt deliveries. Highest references. Satisfaction guaranteed.

NI-VERRE CHEMICAL COMPANY
5 to 7 Ormeau Avenue, BELFAST (Ireland).

CHEMIST'S good second-hand 12-ft. Mahogany Drug Fitting, 6-ft. Mahogany Dispensing Screen and Counter, 4-ft. Mahogany Wall-case, 10-ft. Glass-fronted Counter; Nest of Counter Drawers; Perfumery Case and Desk; 4-ft. Bent Glass Counter Case; the lot £45; bargain; cheapest house for Window Enclosures, Mirrors, Glass Shelves, modern Shop Fronts, Improvements, etc.; plans prepared; estimates free. Mills, Shopfront, Shopfitting, and Glass Facia Works, 163-165 Old Street, London, E.C. 'Phone London Wall 550.

10 GROSS Shaving-sticks, 1s. size, in tins, 39s. a gross; 156 doz. French Razors, 13s. per doz., quantities cheaper; Emery Boards, size 1 2¾ × ½ in., size 2 4½ × ½ in., 20 great gross of each, 14s. and 20s.; samples supplied of above. Apply, 83/65. Office of this Paper.

CAMERAS.

SHOP-SOILED OR SECOND-HAND.

Single models or complete Stocks of CAMERAS and PHOTOGRAPHIC APPARATUS purchased for Cash. Chemists in restricted areas and with large stocks of unsaleable lines should write us. Any quantity considered, from **10/-** to **£1000.** Also Lanterns, Binoculars and Microscopes. Prompt payments. No quibbling.

WATSONS, Photographic Specialists,
The Camera House, 84 High Street, SHEFFIELD.

MEDICINE BOTTLES.

4 oz. @ 9/6 per Gross.		6 oz. @ 10/6	
8 oz. @ 11/-	,,	12 oz. @ 12/-	
16 oz. @ 16/-	,,	20 oz. @ 18/-	

Orders £2 worth carriage paid.

Address, 190/32, c/o The "Chemist & Druggist," 42 Cannon St., E.C.

THERE IS MONEY TO BE MADE

in the PHOTOGRAPHIC DEPARTMENT of your business, but the work must be well and quickly done. We are Experts, and return the work 9 hours after we receive it. Send for our List, and give us a trial.

STEAD & CO., Photographic Experts,
DUKE STREET, BRIGHTON.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of **1/-** for six words or less; **2d.** per word beyond, prepaid Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Bromural, original ounce package, unopened (191/32)
Iodoglidine (190/25)
Lithium hippuras., 4 drams (83/68)
Iodoglidine tablets (187/8)
Paramidophenol or Paramidophenol hydrochlor. (192/21)
Styracol (Guaiacol cinnamate) (188/40)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Acetylsalicyl, 5 oz. (191/23)
Ammon. brom., 1 lb. (191/23)
Antipyrin (Knorr's original tin) (191/23)
Phenacetin, 2 oz. (191/23)
Salol, 3 oz. (191/23)
Sodæ salicylas (Schering's original), 1 lb. (191/23)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d*.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

OFFERS in cash for "The Chemist and Druggist," bound in half-yearly volumes, leather and cloth, in perfect condition, from July 1886 to June 1910; carriage paid home. 192/34, Office of this Paper.

DRUGS AND CHEMICALS.

PHENACETIN, 4-oz. bottles; cash 21*s*. Forbes, Pharmacist, Stockport.

FOR disposal, 6 lb. potassium ferricyanide. S. Edwards, Pharmacist, Godalming.

OFFERED.—Tab. phenacetin comp. qrs. v., 1,500 82*s*.; phenacetin, 2 oz. 10*s*.; phenazonum, 2 oz. 8*s*. 6*d*.; acid tartaric pulv. P.B., 7 lb. 19*s*.; pot. permang., 2 lb. 16*s*.; quininæ sulph., 2 oz. 5*s*. 6*d*.; ac. salicylic pur., 2 oz. 3*s*. Leighton, Chemist, Broomhill, Sheffield.

MISCELLANEOUS.

WHAT offers? 30 shop rounds, 2 carboys, 4 douche cans, and various drugs. 10 Ponsonby Terrace, Pimlico, London.

WANTED.

WANTED, "Pharmaceutical Formulae," vol. ii. (1904). "P.C. to S.B." (63/49), Office of this Paper.

DENTAL showcase with specimens wanted, also authographic till. Morgan, Chemist, Kimbolton, Hunts.

TABLET machine required; must be easy to work by hand. State price, capacity of output, etc., 191/15, Office of this Paper.

LIQUORICE sticks, also surplus drugs and patents; cash or exchange. State quantity and price to Walton, Chemist, Batley Carr.

SMALL power powder mixer and sifter wanted immediately. State capacity and lowest figure, Kernick & Son, Ltd., Manufacturing Chemists, Cardiff.

10-20 gall. emulsifier and 8-10 gall. water-jacketed pan wanted immediately. State price and condition, Manager, 2 Eden Street, N.W.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

STEARIC acid. pulv., sod. fluoride pulv., sod. stearate pulv. Quote (with 2-oz. sample) per cwt. for immediate delivery. 192/8, Office of this Paper.

Austrian News.

Tanning-material in Hungary.—According to an Imperial Decree, the bark of oak and pine trees, galls, and extracts of oak-wood, chestnut-wood, and pine-bark have been withdrawn from free trade. The maximum price for pine-bark and oak-bark has been fixed at 30kr. per 100 kilos., for galls at from 27kr. to 55kr. per 100 kilos.

Prices of German Medicaments.—Conferences are taking place about the prices of medicinal products, the result being that henceforth Austria will obtain medicaments from Germany at the same prices as are paid in Germany, provided that Austria is willing to enter upon certain conditions the German Government has put to it.

Poppy-seed.—According to a decree of August 11, 1916, all stocks of poppy-seed in Austria have been commandeered on behalf of the State. An exception is made of stocks that do not exceed 5 kilos., but even such small quantities cannot be sold without special permission. Rapeseed, rape oil, and oilcakes have already been commandeered.

Fat-supply.—A War Association for the oil and fat industry has been founded in Austria, upon the suggestion of the Ministers of Commerce and of War. This Association includes all works which produce animal and vegetable oils and fats—except butter, lard, and bone-fat—and preparations therefrom. Joining the Association is compulsory for all manufacturers, except Government enterprises, which arrange for the distribution of the fat and oil products. The Association has been charged with the distribution of the raw material for various purposes, the regulation of the prices of sale, etc.

Cultivation of Oilseeds.—The Austrian Department of Agriculture is encouraging the cultivation of oilseeds such as linseed and poppy. The Central Committee for the supply of fats and fixed oils is prepared to buy at 150kr. per "Meterzentner," all quantities of poppy-seed that are offered to it until October 31. As a guarantee the Committee has deposited with the Austro-Hungarian Bank 5,000,000kr., of which the Department of Agriculture is authorised to dispose in case of need. Landowners who are willing to grow oilseeds can borrow money from this fund at 5 per cent., and they can obtain seed from the Committee at 150kr. per "Meterzentner." The War Department has granted furlough to the soldiers whose presence is wanted at home for the planting of rapeseed, poppy-seed, linseed, and other plants which produce oleaginous seeds.

Digitalis.—A decree of the Minister of the Home Department allows pharmacists to dispense the leaves of *Digitalis ambigua*, Murr., in the place of the leaves of the official *D. purpurea*, if the latter is not especially mentioned by the physician. The stocks of both sorts of digitalis must be kept separately, however. The stocks of *Digitalis purpurea* are extremely small, but *D. ambigua* is still to be had in large quantities. *D. ambigua*, Murr., is an excellent substitute for *D. purpurea*, according to researches made in the Pharmacognostic Institute of the Vienna University. Dr. Wasicky reports on these researches in the "Ztschr. d. Allg. Oesterr. Ap. Ver." He states that there is no difference whatever in the activity of the leaves of the varieties with red and yellow flowers. The quantity of digitoxin contained in the leaves is 0.31 per cent., and biological researches also gave the same result.

Drug-cultivation in Hungary.—Professor Franz Darvas, who has been teaching disabled soldiers how to gather wild drugs, and how to cultivate medicinal plants, has been interviewed in the "Ztschr. d. Allgem. Oesterr. Apoth. Vereines." He reports that the invitation to teachers and clergymen to promote the gathering of drugs by schoolchildren has met with great success. Up to date the value of the drugs that have been so gathered amounted to about 4,000k., and much more may be expected shortly. In the spring of this year the "Kriegshilfsfürsorgebüreau" in Budapest issued fourteen pamphlets to burgomasters, teachers, and clergymen of the Hungarian municipalities, each with an illustration of a wild drug with explanatory text, the pamphlets including particulars regarding tilia, belladonna, elder, henbane, arnica, poppy, chamomilla, *Achillæa Millefolium*, *Datura Stramonium*, ergot, marshmallow, verbascum, cantharides, and wormseed. Professor Darvas has contributed a series of articles on the subject in the daily Press.

Fuel Requirement.—About 2,500 calories are required in the daily food of man whose occupation is of sedentary character. As a matter of fact, statistics show that the inhabitants of cities take this amount of fuel daily.—*Lusk.*

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., 1 New-street Square, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*September* 23, 1916. [72]

GOLD MEDAL AND DIPLOMA, PARIS, 1900.

J. F. Macfarlan & Co.

EDINBURGH AND LONDON.

MANUFACTURERS OF

MORPHIA AND ITS SALTS.
CODEIA AND ITS SALTS.

ALL OTHER **OPIUM** PRODUCTS, AND ALL
:: ITS SYNTHETIC DERIVATIVES. ::

Apomorphine Muriate.	Euonymin.	Narcotine.	Veratrine.
Cotarnine (Stypticin).	Emetine.	Salicin.	Spirituous
Chrysarobin.	Gingerine.	Strychnine.	Galenicals in Bond.

Macfarlan's Pure Chloroform.

A definite Chemical Compound, answering British Pharmacopœia and all other Official Tests. The purity and excellence of Chloroform do not depend on the **sources of its preparation,** but on the **skill and care with which it is prepared.**
Is extensively used in the principal Hospitals and Infirmaries.

"Comparing 'pure,' 'Methylated,' and other Chloroforms, no evidence is afforded of any kind being safer than another."—BRIT. MED. ASSOC., Report of the Anæsthetics Committee, July 1900.

Macfarlan's Anaesthetic Ether.

(As used by the late Dr. THOMAS KEITH.)

After long trial, both in Hospital and in Private Surgical Practice, our Anæsthetic Ether has acquired special preference and repute, and is guaranteed to be unsurpassed in quality by any other made from whatever source.

MACFARLAN'S
ANTISEPTIC DRESSINGS AND APPLIANCES.

Prepared from the Special Formulæ of the late LORD LISTER, and guaranteed to contain full percentage of antiseptic substance. Since their introduction in 1871 these Dressings have continued to merit the confidence and approval of the Profession.

THE STANDARD TABLET & PILL CO HOVE LTD

DIRECTORS
H.W. KILBY PEARS
PHARMACEUTICAL CHEMIST
W.H. GIBSON
M.P.S. F.C.S.
J.C. STEAD F.C.S.
PHARMACEUTICAL CHEMIST

A Qualified Directorate & Management

are guarantees to our customers

of Quality, Accuracy, Scientific Preparation, Finish, and General Excellence.

OUR GOODS CLEARLY CARRY EACH OF THESE INDELIBLE HALL-MARKS

Tablets of :: ::
Compressed Drugs
UNCOATED
SUGAR COATED
CHOCOLATE COATED

Pills :: :: ::
PEARL COATED
SUGAR COATED
GELATINE COATED

Capsules :: ::

TOILET ARTICLES.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., New-Street Square, E.C.; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*September* 23, 1916.